

GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 18:14:11 ; Search time 2037.42 Seconds

(without alignments)  
12546.865 Million cell updates/sec

Title: US-09-841-963A-1

Perfect score: 1894

Sequence: 1 gctgactctctccacgac.....ataagatactagagactg 1894

Scoring table: IDENTITY\_NUC  
Gap 10.0, Gapext 1.0

Searched: 13736207 segs, 6748477542 residues 27472414

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : EST:  
1: em\_estha:\*  
2: em\_esthum:\*  
3: em\_estlin:\*  
4: em\_estmu:\*  
5: em\_estov:\*  
6: em\_estpl:\*  
7: em\_estro:\*  
8: em\_hic:\*  
9: gD\_estl:\*  
10: gD\_estl2:\*  
11: gD\_hic:\*  
12: gD\_gss:\*  
13: em\_gss\_hum:\*  
14: em\_gss\_inv:\*  
15: em\_gss\_pln:\*  
16: em\_gss\_vitl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	781.4	41.3	799	10	BT770453 603055418
2	712.4	37.6	730	10	BT772270 603055851
3	682.6	36.0	991	10	BT779568 60328182
4	659.6	34.8	721	9	AT745526
5	617.4	32.6	640	10	BT589055 nacc29604.x
6	604.4	31.9	843	10	BT178499
7	596.6	31.5	627	10	BT476482 nacc25607.x
8	590	31.2	933	10	BT563288 601335410
9	584.8	30.9	945	10	BT871340 601449457
10	576.4	30.4	625	10	BT446190 7p3108.x
11	573	30.3	950	10	BT006343 603615035
12	549.6	29.0	899	10	BT328411 602427749
13	549.6	29.0	606	9	AA662164 ns66c07.s
14	525.8	27.8	652	9	AM130657 xeb6c07.x
15	504.4	26.6	514	9	AA662204 ns66c07.r
16	467.6	24.7	809	10	BT967992 602832361
17	465	24.6	601	9	AM971121 EST383208

C	18	463.8	24.5	512	9	AT668916
	19	463.8	24.5	737	10	BT077619
	20	460.6	24.3	539	10	BT57615
	21	448.6	23.7	591	10	BT085247
	22	431.8	22.8	458	9	AT991223
	23	417.4	22.0	430	9	AT979170
	24	396.2	20.9	418	9	AM298436
	25	381	20.1	943	10	BT676137
	26	372.2	19.7	392	9	AA639821
	27	352.6	18.6	361	9	AA513942
	28	349.8	18.5	353	10	BT003063
	29	346.8	18.3	381	9	AT859010
	30	345.6	18.2	386	9	AT685592
	31	345.6	18.2	548	9	AM973391
	32	344	18.2	366	9	AT687669
	33	341.6	18.0	2064	10	BT579116
	34	323.6	17.1	366	9	AA662521
	35	316	16.7	335	9	AA513274
	36	306.8	16.2	384	9	AA548598
	37	302.6	16.0	859	10	BT916428
	38	297.4	15.7	628	10	BT072997
	39	289.6	15.3	369	9	AA228304
	40	278.6	14.7	784	10	BT072422
	41	275.4	14.5	441	9	AT686414
	42	256.6	13.5	504	9	AA930371
	43	236.6	12.5	952	10	BT539428
	44	235	12.4	348	9	AT922279
	45	231	12.2	875	10	BT966737

## ALIGNMENTS

RESULT 1  
BT770453 799 bp MRNA linear EST 25-SEP-2001  
LOCUS 603055418F1 NIH\_MGC\_122 Homo sapiens CDNA clone IMAGE:5204692 5',  
DEFINITION MRNA sequence.

ACCESSION BT770453  
VERSION BT770453.1 GI:15762031  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE NIH-MGC http://mgc.nci.nih.gov/  
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)  
TITLE Unpublished (1999)  
JOURNAL Contact: Robert Strausberg, Ph.D.  
COMMENT Email: cgaps-remail.nih.gov

Tissue Procurement: Life Technologies, Inc.  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
P1: BT770453 row: d column: 05  
High quality sequence stop: 799.  
Location/Qualifiers  
1..799

## FEATURES

source  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:5204692"  
/clone\_id="NIH\_MGC\_122"  
/lab\_host="DH10B"  
/note="Organ: pooled lung and spleen; Vector: PCMV-SPORT6; anonymous pool of 24 week female lung, 16 week female spleen, and 20-22 week male spleens. library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size

range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 026. Note: this is a NIH\_MGC Library.

BASE COUNT 135 a 297 c 248 g 119 t

ORIGIN

Query Match 41.3%; Score 781.4; DB 10; Length 799;  
Best Local Similarity 98.6%; Pred. No. 5.7e-135;  
Matches 788; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1 gctgactctctccagacatctctgacgtgctgacacgtgccccacagacc 60  
DB 1 gctgactctctccagacatctctgacgtgctgacacgtgccccacagacc 60

QY 61 agtctcacaagctgctgacgtgacgtgacgtgacgtgacgtgacgtgacgtg 120  
DB 61 agtctcacaagctgctgacgtgacgtgacgtgacgtgacgtgacgtgacgtg 120

QY 121 ccagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 180  
DB 121 ccagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 180

QY 181 gcaacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 240  
DB 181 gcaacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 240

QY 241 gcaacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 300  
DB 241 gcaacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 300

QY 301 cagtgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 360  
DB 301 cagtgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 360

QY 361 ctccctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 420  
DB 361 ctccctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 420

QY 421 cagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 480  
DB 421 cagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 480

QY 481 ggtctcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 540  
DB 481 ggtctcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 540

QY 541 ctgagagtcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 600  
DB 541 ctgagagtcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 600

QY 601 ctgagagtcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 660  
DB 601 ctgagagtcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 660

QY 661 tcgagagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 720  
DB 661 tcgagagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 720

QY 721 gggcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 780  
DB 721 gggcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 780

QY 781 gcaatcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 799  
DB 781 gcaatcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 799

RESULT 2  
BI772270 730 bp mRNA linear EST 25-SEP-2001  
LOCUS BI772270  
DEFINITION 603055851.F1 NIH\_MGC\_122 Homo sapiens cDNA clone IMAGE:5205132 5',

ACCESSION mRNA sequence.  
VERSION BI772270  
KEYWORDS BI772270.1 GI:15763848  
SOURCE EST.  
ORGANISM human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 730)  
NIH-MGC http://mgc.ncbi.nlm.nih.gov/.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
CONTACT: Robert Strausberg, Ph.D.  
Email: cgabbs-remail.nih.gov  
Tissue Procurement: Life Technologies, Inc.  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
Plate: L14M1514 row: f column: 13  
High quality sequence stop: 729.  
Location/Qualifiers

FEATURES  
source  
1..730  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:5205132"  
/clone\_11b="NIH\_MGC\_122"  
/lab\_host="DH10B"  
/note="Organ: pooled lung and spleen; Vector: pCMV-SPORT6; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA source anonymous pool of 24 week female lung, 16 week female spleen, and 20-22 week male spleens. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 026. Note: this is a NIH\_MGC Library."

BASE COUNT 124 a 265 c 237 g 104 t

ORIGIN

Query Match 37.6%; Score 712.4; DB 10; Length 730;  
Best Local Similarity 98.5%; Pred. No. 3.3e-122;  
Matches 719; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 68 caagcctgctgacagcctccctgcaagcctcaggttggtgcttgccagcagcagc 127  
DB 1 CAAGCCTGCTGACAGCCTCCCTGCAAGCCTCAGGTTGGGCTTGCCAGCGTCCAG 60

QY 128 gcaagcctggtgctggtggtgagtgagctccctacagcagcagcagcagcagcagc 187  
DB 61 GCAAGCCTGAGGCTGGGGGTAGGGAGCTCCCTACAGCAGCGACCTGAGACCTGAG 120

QY 188 gcaagcctggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 247  
DB 121 GCAAGCCTGAGGCTGGGGGTAGGGAGCTCCCTACAGCAGCGACCTGAGACCTGAG 180

QY 248 gacctgtgacctgtgtccgctggtggtggtggtggtggtggtggtggtggtggt 307  
DB 181 GCCCTGTGGCCCTGTGGCTTCCGTGGCCCTGAGATGCTGCTGAGACACGCAATGG 240

QY 308 ctgagctggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 367  
DB 241 CTCAGCTGCTGAGCCTCTTCCGGGCTTGAGATGGCATGGACAGCAAGCTCCAG 300

QY 368 ggcacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 427  
DB 301 GGCACACGACGCTAACAGACAGCGCCGCAACCAACAGCAGCGCATGGGACGCGCC 360

QY 428 agcccggtctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 487

[illegible]

RESULT	3				
LOCUS	Bg179568				
DEFINITION	Bg179568	991 bp	mRNA	linear	EST 06-FEB-2001
ACCESSION	603328182p1	NIH_MGC_91	Homo sapiens	CDNA clone	IMAGE:4429413 5',
VERSION	Bg179568				
KEYWORDS	Bg179568.1	GI:12686271			
SOURCE	EST.				
ORGANISM	human.				
REFERENCE	Homo sapiens				
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
TITLE	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
JOURNAL	1 (bases 1 to 991)				
COMMENT	NIH-MGC <a href="http://mgc.ncl.nih.gov/">http://mgc.ncl.nih.gov/</a> .				
	National Institutes of Health, Mammalian Gene Collection (MGC)				
	Unpublished (1999)				
	Contact: Robert Strausberg, Ph.D.				
	Email: <a href="mailto:cgapbs-remail.nih.gov">cgapbs-remail.nih.gov</a>				
	Tissue Procurement: DCTD/DP				
	CNA Library Preparation: Life Technologies, Inc.				
	CNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)				
	DNA Sequencing by: Incyte Genomics, Inc.				
	Clone distribution: MGC clone distribution information can be				
	found through the I.M.A.G.E. Consortium/LNL at:				
	<a href="http://image.lnl.gov">http://image.lnl.gov</a>				
	Plate: LLM10181	row: d	column: 22		
	High quality sequence stop: 655.				

FEATURES	SOURCE	Location/Qualifiers
		1..991
		/organism="Homo sapiens"
		/db_xref="taxon:9606"
		/clone IMAGE:4428413"
		/clone_lib="NH_MGC_91"
		/tissue_type="adenocarcinoma, cell line"
		/lab_host="DH10B (phage-resistant)"
		/note="Organ: prostate; Vector: pCMV-Sport6; Site:1: NotI; Site:2: SalI; Cloned unidirectionally; oligo-dT primed. Average insert size 1.4 kb. Library enriched for full-length clones and constructed by Life Technologies. Note: this is a NH_MGC library."
BASE COUNT		190 a 351 c 305 g 145 t
ORIGIN		
Query Match		36.0%; Score 682.6; DB 10; Length 991;

	Best Local Similarity	95.6%	Pred. No. 1,2e-116;	Matches 735;	Conservative 0;	Mismatches 29;	Indels 5;	Gaps 3;
QY	513	cgggggcagtggtgtctcagagagacggagacttgagctcccaagtcacaccgcaagcccgagc	572					
Db	1	CGGGGGCAGTGGGTCGTCCAGAGACGGAGACTGGAGTCCCAAGTCCACCCGCCACGCCCGCAGC	60					
QY	573	agggcctgtccgctctcgacctctctactcttctagatgctgttaaccttgagagcagact	632					
Db	61	AGGGCCTGTCCGCCTTCTACCTCTCTACTTGTGACATCTCTGTACCTTGAGGACAGACT	120					
QY	633	gggcagagccaaagcccccttggtggccagcaatctggggagagccacctgagaccacttgagcagt	692					
Db	121	GGGCGCCCAAGGCCCTTGGGCGCACACTCGGAGAGACCACACTGAGAGGCTTGAGCAGT	180					
QY	693	gcccgcattctgagacagccaaagccccagagggcagacctgagacttggttgcggcgagcgtga	752					
Db	181	GCCCGGTAATTGACAGCCCAAGCCCCAGCGGAGCCTTGACTGGTGTGCCCCGGGGCGTGA	240					
QY	753	cccttgagagcactcgtcttgtagcaggtgtcagctccatgtgtgttggcgaaagtgtgtcctaag	812					
Db	241	CCTTGAGAGAGCACTCGCTGGAGCAGGTGCATGTCATGTGTGGCGCAAGTGTCTCAAG	300					
QY	813	acatcagagacggtccttgcaagctgtcctcaacatcaaccgagatcccatgtgactgagaccca	872					
Db	301	ACATCGAAGACGGCGCTGCAGACTGTCTCAACATCACCGCAGATCCCATGTGATCGAGACCCCA	360					
QY	873	gcaatgtcagaagtggtgtcctgttgagaaagagacaaatataccggtgtcccccataggca	932					

Db	Accession	Version	Keywords	Source	LOCUS	Definition	Accession	Version	Keywords	Source
Db	361	GC	AAAGTCCAGAAAGTGGCTCCTGTGGACAGACACCAATACCGCTGCCCCCAATGGGCA		A1745526/c					
Oy	933	aggcttc	caagagcttgccgagcaagagcgtgtgcacatctcggaaagacattccgc		A1745526	721 bp	mRNA	linear	EST 17-DEC-1999	
Db	421	AGGCTT	CCAGAGCTGGCGGGCAAGAGAGCTGTGGCCATGTGGAAGAGACAGTTCGGCC		wc34a10.x1	NCI_CGAP_Pt28	Homo sapiens	cDNA clone IMAGE:2317050	3'	
Oy	993	agcgc	tgcacccctgggtggtggtatgtctgcacgcgccacctgacatctgtgaagtcacg							
Db	481	AGCGCT	CCGCCCTGGAGTGGGATGTGCTGACACGCCCACTGGACATCTGGAATGCACGGC		A1745526					
Oy	1053	cctgata	tgaagaagcggagcttcacctggggcgatctacatctgtgctcgcagcagttagg		A1745526.1	GI:5113814				
Db	541	CCTGGAT	AAAGAGGCGGACCTTCACCTGGGGCGGATTCACATCTGTGCTTCGACCAATGAGG		EST.	human.				
Oy	1113	agaagctg	accgacagcggaggctggaatcatcatgtctccgggaagccaatccacacctgtgc							
Db	601	AGAGCT	GGACCGACAGCCGAGATGGACATATCATGTCTCCGGGCAAGC--ATCCACCTGTGGC							
Oy	1173	agttctc	aaggaagtgtgtactactcaagccccaagctatgacgcgtcttcatagttgtcca							
Db	659	AGTTCT	CTCAAGAGCTGTACTCAAG--CCCAAGCTATGGCGGCTTTCATTAAG--TGGCTC							
Oy	1233	acaagga	aaagagcatcttccaatatttgagagctcagcccaagttgcccgg							
Db	716	ACCACG	ACGACCGCCCTCTTCCACATTTGAGAGACTCAGCCAGCGGCCCG							

JOURNAL  
COMMENT

unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: c9abps-r@mail.nih.gov  
Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution Information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www.bio.llnl.gov/bdrp/image/image.html  
Insert length: 826 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 448.  
Location/Qualifiers

FEATURES  
source

1. 721  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:2317050"  
/clone\_lib="NCI-CGAP\_Pr28"  
/sex="male"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/note="Organ: prostate; Vector: pT73D-Pac (Pharmacia)  
with a modified polylinker. Plasmid DNA from the  
normalized library NCI-CGAP Pr22 was prepared, and ss  
circles were made in vitro. Following HAP purification,  
this DNA was used as tracer in a subtractive hybridization  
reaction. The driver was PCR-amplified cDNAs from a pool  
of 5,000 clones made from the same library (clonoids  
985608-986759, 1101192-1101959, and 1217928-1220615).  
Subtraction by Bento Soares and M. Fatima Bonaldo."  
BASE COUNT 122 a 197 c 241 g 156 t 5 others  
ORIGIN

Query Match 34.8%; Score 659.6; DB 9; Length 721;  
Best Local Similarity 97.0%; Pred. No. 2e-112;  
Matches 701; Conservative 0; Mismatches 19; Indels 3; Gaps 3;

QY 1172 cagttcccaaggaggttctactcaagcccaagcagctatgagcgtcattagttgctc 1231  
DB 721 CAGTTCCTCAAGAGTTTGTCTACTC-AGCCCNMCAGTATGCCCTTCATTAAGGTGCTC 663  
QY 1232 aacaaggagaagggcatcttcaaatgtgaagctcaagccaggtgagccggtgtgggc 1291  
DB 662 ACAAGGAGAAAGGCGATC-TCAAAATTGAGGAGCTCAGCCAGGTGGCCCTGTGGGGC 604  
QY 1292 atccgaagaagaccgtccgcagctgaagctggaagctgagccgctcatccgcagctc 1351  
DB 603 ATCCGAGAGAACCGTCCCGCAATGAACTAGCAGCAAGCTGAGCCGCTCCATCCGCCAGT 545  
QY 1352 tacaagaaggagcatcatccgaagcagacatctcccaagcgctcgtctatccagttcgtg 1411  
DB 544 TACAAGAAAGGCGATCATCGNAGCAGACATCTCNCAGGCCCTCGTACCAAGTTGCTG 485  
QY 1412 ccccccatgtggttcctcggccaggggtcgttaaacccggtcaggggtctctctctgc 1471  
DB 484 CACCCCATGTGAGTCTGCGCCAGGCGCTGAACCCGCCCTCAGGGGCTCTCTCTCTGC 425  
QY 1472 ctgagccctcagcagcgccctgagatggtggggaacagcgagctgtgctcgtcgtc 1531  
DB 424 CTGCGCTGCTCAGCGACGCGCTGAGATGGGGGAAACGGGCACTGTCTGTGCTCT 365  
QY 1532 gaacttcagagcccaaggttcagggaggggaaccaactgcccagggagatatggctc 1591  
DB 364 GACCTTTCAGAGCCCAAGGTTCAGGGAGGGCAACCAACTGCCCGAGGGGATATGGGTCC 305  
QY 1592 tcttgaggtctcagggacatggtgaggggtgtcttcctccctcagggccagctgctccct 1651  
DB 304 TCTGGGGCTTTCGGGACCTTGGGGAGGGGTGCTTCTCTCCAGGCCCACTGTCTCCCT 245  
QY 1652 gtagagcagaaggagagcaggtgctctcccaacacatgctctgaccccgacatttcag 1711

DB 244 GAGAGACAGAGGAGAGAGAGGCGTCCCAACACCTGCTCTGACCCACATTTCCAG 185  
QY 1712 agcagagcttaccagaaggagcagtgatcgaaagaagccagagctcagcctctc 1771  
DB 184 AGCAGACCTTACAGAAAGGCGAGTCACTGCAAAAGGCCAGCGAGTCCAGCCTCTC 125  
QY 1772 tgcctcaccctcgtcctccatctgcaacaacctgcatggtgaggaacatctg 1831  
DB 124 TGCTCCATCCCTCGCTCCATTTGCAACACCTGGCATGTGCGAGGAGACATCTG 65  
QY 1832 caccctcagttggcagcagagagtgccccgggaatgataaataacatacagaag 1891  
DB 64 CACCCCTGATTTGGCAGCCAGAGTGCCTCCGGGAAATGATTAAGATCTTAACA 5  
QY 1892 ctg 1894  
DB 4 CTG 2  
RESULT 5  
BF589055/c 640 bp mRNA linear EST 12-DEC-2000  
LOCUS  
DEFINITION  
nacc2d04.x1 lupski\_sciatic\_nerve Homo sapiens cDNA clone  
IMAGE:3394614 3' similar to TR:095238 095238 ETS TRANSCRIPTION  
FACTOR PDEF.; mRNA sequence.  
ACCESSION  
BF589055.1 GI:11681379  
VERSION  
BF589055.1  
KEYWORDS  
EST.  
SOURCE  
human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
1. (bases 1 to 640)  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
Tumor Gene Index  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Unpublished (1997)  
AUTHORS  
Contact: Robert Strausberg, Ph.D.  
Email: c9abps-r@mail.nih.gov  
Tissue Procurement: Dr. James Lupski  
cDNA Library Preparation: Lupski Laboratory  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution Information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
info@image.llnl.gov  
Seq primer: -40UP from Gibco  
High quality sequence stop: 416.  
Location/Qualifiers  
FEATURES  
source  
1. 640  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:3394614"  
/clone\_lib="Lupski\_sciatic\_nerve"  
/sex="male"  
/tissue\_type="sciatic nerve"  
/dev\_stage="adult", 70 yr  
/lab\_host="DH10B"  
/note="Vector: PCMV-SPORE6 (Life Technologies); Site-1:  
NotI; Site-2: SalI; cDNA made by oligo-dT priming.  
Directionally cloned using the following adaptors:  
5'-TCGACCCAGCGCGC-3' and  
5'-GACTAGTTCATGATCGGAGGCGGCCCT(15)-3'. Size selected >  
1 kb for average insert length 1.87 kb. This is a primary  
library, non-amplified. Library constructed by Life  
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor  
College of Medicine) and is available through Life  
Technologies."

BASE COUNT 103 a 182 c 218 g 136 t 1 others  
ORIGIN









[illegible]

RESULT	10
BF446190/c	
LOCUS	
DEFINITION	BF446190 625 bp mRNA linear EST 01-DEC-2000 7p33c08.x1 NCI_CGAP Pr28 Homo sapiens cDNA clone IMAGE:3647751 3'
ACCESSION	sequence.
VERSION	BF446190
KEYWORDS	similar to TR:O95238 O55238 ETS TRANSCRIPTION FACTOR PDEF., mRNA
SOURCE	EST.
ORGANISM	human. Homo sapiens

**REFERENCE**  
I (bases 1 to 625)  
**AUTHORS**  
MCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
**TITLE**  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
**JOURNAL**  
Unpublished (1997)  
**COMMENT**  
Contact: Robert Strausberg, Ph.D.

Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/RLMT, send email to: [infoimage@rlmt.gov](mailto:infoimage@rlmt.gov)  
 Seq primer: -400p from Gibco  
 High quality sequence stop: 460.

FEATURES	SOURCE	Location/Qualifiers
		1..625
		/organism="Homo sapiens"
		/db_xref="taxon:9606"
		/clone_image:3647751"
		/clone_id="NCI-CGAP_P178"
		/sex="male"
		/dev_stage="adult"
		/lab_host="DH10B"
		/note="Organ: prostate; Vector: pT73D-Pac (Pharmacia)
		with a modified polylinker; Plasmid DNA from the
		normalized library NCI-CGAP_P122 was prepared, and ss
		circles were made in vitro. Following HAP purification,
		this DNA was used as tracer in a subtractive hybridization
		reaction. The driver was PCR-amplified cDNAs from a pool
		of 5,000 clones made from the same library (cloneids
		965608-986759, 1101192-1101939, and 1217928-1220615)."
		Subtraction by Bento Soares and M. Fatima Bonaldo."
BASE COUNT	113 a	174 c 202 g 135 t
ORIGIN		1 others

	Query Match	Score	DB	Length
	Best Local Similarity	97.1%	Pred. No. 4, 9e-97	625
	Matches	597	Conservative	0; Mismatches 17; Indels 1; Gaps 1;
Qy	1280	cgagctgryggggatccgcgaagaacggtccgcacatgacatctgcgcgaagctgaacgcgctcc	1339	
Db	625	CGGCTGTGGGGCATCCGCAGANCCGCTCCCGCATGAACATG-GCCAAGGCTGACGCCCTCC	567	
Qy	1340	accgcgcagctcttaagaagaagcgcacacccggaagccagacatctcccgcgctctgc	1399	
Db	566	ATCCGCCAGATTTATCAAGAAAGGCATCATCCGGAAGCCAGACATCTCCCGCCCTTCGTC	507	

OY	1400	taaaagtctgtgaaccccaatcgaatgtgcctgcagcccaagagctctaaacccgcgcctcaaggg	1459
Db	506	TACCAAGTCTGTGACACCCATTGTAATGCTGTGGCCCAAGGGCTGTAAACCGCCTCAAGGG	447
OY	1460	cctctcctctgcctgcctctgcctcagccagagccctgaatctgggggaaaaacgagctgctg	1519
Db	446	CCCTCTCCCTGCCTGCCCTGCCTCAGCCAGGCCCTGTGAATGGGGGAAAAACGGGCAGTTT	387
OY	1520	ctctgcgtcctctctacattccagaagcccaagctcaaggaaagggaacaaactgcgcccaagg	1579
Db	386	CTTTGCTGCTTTTACCTTCCAAAGGCCCAAGGTCAAGAGGGGCAACCACTGCCCCAAGGG	327
OY	1580	ggaatatygtctcctctggggcctctcggagccaatggggcaagggtctcctcctcagagccc	1639
Db	326	GGATATATGGGCTCTTTGGGGCTTCGGGACCTGGGGCAGGGGTCTCTCCCTCAAGGCC	267
OY	1640	agctgcgtcccccttgaggaaagagggaagagggctgtctccccaacactgtgcctctacac	1699
Db	266	AGCTGCTCCCTGTGAAGACAGAGGAGACAGAGGCTGCTCCCAACACCTGCTCTTATACC	207
OY	1700	caagcatctccagaagcagagcctacagaagggagcttgactcgacaagaagccacagcagctc	1759
Db	206	CAGCATTTCCAGAGCAGAGCCTACAGAAAGGAGTGACTGCACAAAGGCCACAGGCAGTC	147
OY	1760	caggcctctctctgcgtcccatccccctgtcctccattctgcaccaacaacctgagctgtgca	1819
Db	146	CAGGCTCTTTTGTGCTCATCCCTGCTCTCCCATTTTGACACACACCTGGCATGGTGA	87
OY	1820	ggagagacatctgacccctcagcttgagcagccagagagtgccccggagatgataataa	1879
Db	86	GGGAGACATTTGGACCCCTGAGTTGGGAGCCAGGAGTGCCTCCCGGGAATAGTAAATAA	27
OY	1880	gatactatgagaactg	1894
Db	26	GATCACTAGAGAACTG	12

```

RESULT 11
BM006343 LOCUS 590 bp mRNA 11near EST 30-OCT-2001
DEFINITION 630615035fl NIH_MGC_110 Homo sapiens cDNA clone IMAGE:5420913 5',
mRNA sequence.
ACCESSION BM006343
VERSION
KEYWORDS
SOURCE EST.
ORGANISM human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 590)
NIH-MGC http://mgc.ncl.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNT)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNT at:
http://image.llnl.gov
Plate: LLCM1876 row: e column: 10
High quality sequence stop: 578.
Location/Qualifiers
1..590
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5420913"
/clone_lib="NIH_MGC_110"
/tissue_type="ductal carcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/note="Organ: pancreas; Vector: pOTB7, Site:1: XhoI;"
FEATURES
Source

```

Site 2: EcoRI: cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAAGCAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH-MGC Library."

BASE COUNT 101 a 225 c 180 g 84 t

Query Match 30.3%; Score 573; DB 10; Length 590;  
Best Local Similarity 98.3%; Pred. No. 2.1e-96;  
Matches 579; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 60 cagtcctcccaagctctgtcccaactccctcgaagccctcagttggccttcgaagcgt 119  
DB 2 GAGTCTCTCAAGCCTGTGTCAGCTCTCTCAAGCCTCTAGAGTTGGCTTGCACAGGT 61  
QY 120 gccagcagcagccttgagctgggtaaggagactccctacagcagcagccttgagc 179  
DB 62 GCCAGCAGGAGCCTGTGGCTGGGGGAGGGGACTCCTTACAGCAGCAGCCTTGAGAC 121  
QY 180 cgcagcagcagccttcgtgaggtggccagagccctcagttggcagctgagctc 239  
DB 122 CTGAGAGGGGCTCCCTTGAAGGTGGCCAGGCCCTCAAGTGGCCACCTGAGTGTCTC 181  
QY 240 tgcacacagcctctgtgcccctgtctgcctgcccacagctgctgtgagacagc 299  
DB 182 TGGCAGCAGCCTGTGTCAGCTCTCTGTCCTGCTTGCCTTGCCTTGCCTTGCCTT 241  
QY 300 ccagttgctcagctcgcacacactctccggcccttgagttgagcttcagcagaca 359  
DB 242 CCAAGTGGCTCTACCTGCTCCACCTCTTCCGCTTCAAGTTGGCTGACCTGAGCAGACA 301  
QY 360 gctccctgggcacacagcagctacacagcagcagcagcccaagcagcagcagctg 419  
DB 302 GCTTCCCTGGGACACGAGCAGCTTACAGACAGCCTCCAGCCCAACAGCAGCGCATGG 361  
QY 420 gccagcagcagcctgtgctgagcagctatcccccagcagcactctgtctgcccagaca 479  
DB 362 GCAGCGCCAGCCCGGGCTGTGAGCAGCGTATCCCCAGCCACCTCTGTGACCCCGGACA 421  
QY 480 cggatgtgcgagagagcttgagaaaggcagcagcagcagcagctgagcttcagagagc 539  
DB 422 CGGtGTGCGGACAGGCTTGAGAAAGCGGAGCGGGGAGAGGAGGAGGAGCGG 481  
QY 540 acttgagctccagctccaccccgccagcagcagcagcagcagcagcagcagcagc 599  
DB 482 ACTGAGAGTCCCAATCCACCGCCAGCGCCGAGAGAGGAGGAGGAGGAGGAGGAGG 541  
QY 600 actttgagctgctgtaacctgagagcagcagcagcagcagcagcagcagcagc 648  
DB 542 ACTTTCAGATGCTGTACCTCTGAGAGCAGCAGCTGGGAGCAGCAAGGCCCC 590

## RESULT 12

LOCUS BG328411 899 bp mRNA linear EST 27-FEB-2001  
DEFINITION 60247779F1 NIH\_MGC\_15 Homo sapiens cDNA clone IMAGE:4546860 5',  
Mammalia sequence.

ACCESSION BG328411  
VERSION BG328411  
KEYWORDS EST.  
SOURCE human.

## ORGANISM

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

## REFERENCE

1 (bases 1 to 899)  
NIH-MGC <http://imgc.nci.nih.gov/>.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgabs-remail.nih.gov  
Tissue Procurement: ARCC  
cDNA Library Preparation: Ling Hong/Rubin Laboratory  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: NIH Intramural Sequencing Center  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
plate: LHCMI234 row: b column: 13  
High quality sequence stop: 602.

## FEATURES

## source

1. 899  
Location/Qualifiers

/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_id="NIH\_MGC\_15"  
/tissue\_type="adenocarcinoma cell line"  
/lab\_host="DH10B (phage-resistant)"  
/note="Organ: colon; Vector: pOTB7; Site: 1; XhoI; Site 2:  
EcoRI: cDNA made by oligo-dT priming. Directionally  
cloned into EcoRI/XhoI sites using the following 5'  
adaptor: GGCAAGCAG(G). Size-selected >500bp for average  
insert size 1.8kb. Library constructed by Ling Hong in  
the laboratory of Gerald M. Rubin (University of  
California, Berkeley) using ZAP-cDNA synthesis kit  
(Stratagene) and Superscript II RT (Life Technologies)"

BASE COUNT 163 a 346 c 277 g 113 t

## ORIGIN

Query Match 29.08; Score 549.8; DB 10; Length 899;  
Best Local Similarity 86.9%; Pred. No. 4.5e-92;  
Matches 734; Conservative 0; Mismatches 92; Indels 19; Gaps 11;

QY 5 gacttcctcccaagcactctcgtcactctcgtgtccacacagcagcccaagacccagtc 64  
DB 2 GACTTCTCTCCAGCAGCATTTCTGCACTGTGCGTGCACACTGCCCCACAGACCAAGTC 61  
QY 65 ctccaagcctgtctgcagctccctcgaagccctcagttgagccttcgacagtggtccag 124  
DB 62 CTCGAAGCCTGTGCTGAGGCTCCCTGCAAGCCCTCAGAGTTGGGCTTGGCAGGTCGAG 121  
QY 125 caggcagccttgagctgggttagggagctccctacagcagcagcagcagcagcagcagc 184  
DB 122 CAGGCAAGCCTGTGAGGCTGAGGAGGAGTCCCTACAGGAGCAGCAGCCGAGACCTCAG 181  
QY 185 ccaagcaccctctagaggtgagcagcagcagcagcagcagcagcagcagcagcagcagc 244  
DB 182 AGGGCAGCCCTTGAAGGTGGCCAGGCCCCAGAGGAGGAGGAGGAGGAGGAGGAGG 241  
QY 245 ccagcctctgtgcccctggtctcgtctgccccagatgcctgtgtgagacagcagcagc 304  
DB 242 CCAGCCCTGTGAGGCTTGTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 301  
QY 305 ggcctcagctgccccacactcttcgcgccccttgagttgagctgagagagcagctcc 364  
DB 302 GGCTCAAGCTCCCAACACTTCTTCCGGCCCTTGAAGTTGGCACTGACAGACAGCTCC 361  
QY 365 ctggcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 424  
DB 362 CTGGGCAACAGGAGCTTACAGACAGAGTGG-CAGCCCAAAAGCAGCGGAGTGGGAGG 420  
QY 425 gccagcccgagg-tttgagcagcgtatcccccagcagcagcagcagcagcagcagcagc 483  
DB 421 GCCAGCCCGGCTGTGAGCAGCGTATCCCAAGCAGCAGCTCTGCTGCCCCACACGG- 479  
QY 484 gtccgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 542  
DB 480 GTCGGGAGCAGGCTTGGAGAACGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 539  
QY 543 ggaatccagctccacccgagcagcagcagcagcagcagcagcagcagcagcagcagcagc 602  
DB 540 GGAATCCAGCTCCACCCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 594

[illegible]

RESULT	13		
AA662164/c			
LOCUS		606 bp	MRNA
DEFINITION	AA662164	ns66607.s1	NCI-ICAP_P122 Homo sapiens CDNA clone IMAGE:1188588 3'
		similar to SW:ETS4_DROME	P29775 DNA-BINDING PROTEIN D-ETS-4 ; , MRNNA
ACCESSION	AA662164		
VERSION	AA662164.1	GI:2616255	
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		

REFERENCE	1 (bases 1 to 606)
AUTHORS	NCI-CGAP <a href="http://www.ncbi.nlm.nih.gov/ncicgap">http://www.ncbi.nlm.nih.gov/ncicgap</a> .
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL	Unpublished (1997)
COMMENT	Contact: Robert Strausberg, Ph.D.

Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R. Bamber-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA library Arrayed by: Greg Lennon, Ph.D.  
DNA sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/BLNT at: [www.bio.liml.gov/dbip/image/image.html](http://www.bio.liml.gov/dbip/image/image.html)  
Insert Length: 734 Std Error: 0.00  
Seq primer: -40m13 fwd. ET from Amersham  
High quality sequence stop: 393.

**FEATURES**  
**source**

```

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1188588"
/clone_lib="Not CGAP-pr22"
/sex="male"
/tissue_type="normal prostate"
/lab_host="DH10B"
/note="Organ: prostate; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from normal prostate bulk tissue, and was then primed with a Not I - Oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is normalized, and was constructed by Bento Soares and M. Fatima Bonaldo. "

```

Query Match	29.08;	Score 549.6;	DB 9;	Length 606;
Best Local Similarity	97.28;	Pred. No. 4.5e-92;		
Matches 591; Conservative	0;	Mismatches 14;	Indels 3;	Gaps 3

QY	1288	ggatccgcgaagaacggtcccgccatgacgtggaacaagcttggacgctccatccgcga	1347
Db	606	ggggatccgcgaaga -cgctcccgctaaactaacacaaagctgacggctccatccgcga	548
QY	1348	gtcttaagaagaagcatcatccggaagccagaacatctccagcgctcgtctacagct	1407
Db	547	gtattacaagaaggcctatctatccggaaagccaaacattttccagggcctcgtacacggt	488
QY	1408	cgtagaccccatctgagtccttgcccaaggcgtctaaacccgcctcatgaggtctctc	1467
Db	487	cgtagaccccatctgagtgcttgccccaaggcctgtaaacccgggctcataggggctctctc	428
QY	1468	ctgagtcgcttgctctaaagccaggtcccttgatgtggggaaacaggcagtgctctgctg	1527
Db	427	ctgagtcgcttgctctcaagccaggtcccttgatgtggggaaacaggcagtgctctgctg	368
QY	1528	ctctgaccttccaaagcccaagtcacaggaaggaggaacacaaactgcccagaaggata	1587
Db	367	ctctgacaccttccaaagcccaagtcagaggagggacaaacaaactgcccagaaggata	308
QY	1588	gtctctctggggtcttgggacacatggggaagggtggtcttctctcaaggccagctgctc	1647
Db	307	gtctctctggggg -cttccggagcctctgggggacgggggtgcttccctctcagggccaaactgctc	249
QY	1648	gccttgagagcaagaaggagacaggtgtgtctcccaacacctgctcttgaaccacgactt	1707
Db	248	cccttgagagcaagaaggagacaggtgtgtctcccaacacctgctcttgaaccacgactt	189
QY	1708	ccgaagaagaagcctcaagaagaaggcaatgactgacaagaagcccaagaagcaatccaagctc	1767
Db	188	ccaaagacgaagcctcaagaagaaggcaatgactgacaagaagcccaagaagcaatccaagctc	129
QY	1768	tctctgtcctaccccccgtgcttcccaattctgacacacacactgagatgtgtgaaggagaca	1827
Db	128	tctctgtcctaccccccgtgcttcccaattctgacacacacactgagatgtgtgaaggagaca	69
QY	1828	tctctacccctcagtttggagcagcaagatgtgccccg -ggaatgataataaataacta	1886
Db	68	tctctacccctcagacttctgacgacacgaactgcccccggaatgataataaataacta	9
QY	1887	gagaactg 1894	
Db	8	gagaactg 1	

RESULT 14	652 bp	mrna	linear	EST 27-OCT-1999
AM130657/c				
LOCUS				
DEFINITION				
AM130657				
x64607. x1				
similar to TR:095238				
095238				
ETS TRANSCRIPTION FACTOR				
PEEF. : mRNA				

sequence.	
AM130657	
AM130657.1	GI:61323553
EST.	
human.	
Homo sapiens	
ORGANISM	
SOURCE	
KEYWORDS	
VERSION	
ACCESSION	

REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (pages 1 to 65)  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.

Email: [cgabbs-r@mail.nih.gov](mailto:cgabbs-r@mail.nih.gov)  
Tissue Procurement: Christopher Moskalko, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.  
cDNA library Preparation: Life Technologies, Inc.



```
Db 301 AGAGCCCAAGTCAAGGAGGGAACCAACTGCCCCAGGGGATATGGGTCTCTGGGGC 360
QY 1600 ctctgggacatgggcaagggtgtctctctcagggccagctgtccctggagaca 1659
    |||||
Db 361 CTTCGGGACCATGGGCGAGGGGTCTCTCTCTCAAGGCCAGCTGTCTCCCTGGAGACA 420
QY 1660 gaggagacaggggtgtctcccaacacctgtctctgacccagcatcttcagagcagagc 1719
    |||||
Db 421 GAGGGAACAGGGCTGCTCCCAACACTGTCTCTGACCCCAACATTTCCAGAGCAGAGC 480
QY 1720 ctacagaaggcagtgactcgacaagggccacag 1753
    |||||
Db 481 CTACAGAAGGGCACTGACTCGACAAAGGCCACAG 514
```

Search completed: August 6, 2002, 18:52:17  
Job time: 2286 sec





D	b	301	cagrgcctcagctctgcccacaactctctccgcgcctctgaagtctgacatgacagacag	360
O	y	361	ctcccctggcaccacgagcctaaacagacacacgcgcacaccccaaacagacagcattg	420
D	b	361	ctcccctggcaccacgagcagctaaacagacacacgcgcacaccccaaacagacagcattg	420
O	y	421	cagcgccacagcccggtctctgacagcgtatccccacacctctctgtcccccgacac	480
D	b	421	cagcgccacagcccggtctctgacagcgtatccccacacctctctgtcccccgacac	480
O	y	481	ggtctgcgagacagagctctggaaagagccgacagcgcgagggagctgggtctccgaagacgga	540
D	b	481	ggtctgcgagacagagctctggaaagagccgacagcgcgagggagctgggtctccgaagacgga	540
O	y	541	ctggagctccaggtccacaccgcacacgcgcagacagggcctgtccgcctctgcatactctcta	600
D	b	541	ctggaggtccacaggtccacaccgcacacgcgcagacagggcctgtccgcctctgcatactctcta	600
O	y	601	ctttggaacatgtctgaacctctgaagacagcagctcgaggagacaaagccctctgggcccagag	660
D	b	601	ctttggaacatgtctgaacctctgaagacagcagctcgaggagacaaagccctctgggcccagag	660
O	y	661	tcggagagagacacacctcagacacgcctcagacgtcccccgtcatcttgacacaaagccccgc	720
D	b	661	tcggagagagagacacacctcagacacgcctcagacgtcccccgtcatcttgacacaaagccccgc	720
O	y	721	gggcacacccttgagacttgctgcgcgacgggtctgaaccttgagagagacatccgcttgagagagt	780
D	b	721	gggcacaccccttgagacttgctgcgcgacgggtctgaaccttgagagagacatccgcttgagagagt	780
O	y	781	gcagttccatctgtgtgtgtgtgcgaagtgtctcaagacatctcagagacacggtccgaagcttgtctaa	840
D	b	781	gcagttccatctgtgtgtgtgtgcgaagtgtctcaagacatctcagagacacggtccgaagcttgtctaa	840
O	y	841	catcaaccgacaaatcccatctggacctggagccccaacaaatgctgcagaagctgtcctcttgac	900
D	b	841	catcaaccgacaaatcccatctggacctggagccccaacaaatgctgcagaagctgtcctcttgac	900
O	y	901	agagacacacaaatccacgcgtgcaccccatctgagcaagcctctcagagagcttgacgggcaagga	960
D	b	901	agagacacacaaatccacgcgtgcaccccatctgagcaagcctctcagagagcttgacgggcaagga	960
O	y	961	gctgtgagcccatgtgcaggaaagacagtctccgcacagccgtctgcaccccggtgtgggagatgtgct	1020
D	b	961	gctgtgagcccatgtgcaggaaagacagtctccgcacagccgtctgcaccccggtgtgggagatgtgct	1020
O	y	1021	gcacgcccacacctcggagacatcggagagctcaagcggtcctgcaccccggtgtgggagatgtgct	1080
D	b	1021	gcacgcccacacctcggagacatcggagagctcaagcggtcctgcaccccggtgtgggagatgtgct	1080
O	y	1081	ggcgattccaactactgtgctcctgcacagctgaagagagacttgacacgcacgcagcgaggtgagctc	1140
D	b	1081	ggcgattccaactactgtgctcctgcacagctgaagagagacttgacacgcacgcagcgaggtgagctc	1140
O	y	1141	ataatgtctccggggagagcccatccaactgtgtgcaggttccctccaaggggttgctactcaagcc	1200
D	b	1141	ataatgtctccggggagagcccatccaactgtgtgcaggttccctccaaggggttgctactcaagcc	1200
O	y	1201	ccaacagactatgcccgtctcaatctgaagctcgaacaaaggaggggacatcttcaaaattgga	1260
D	b	1201	ccaacagactatgcccgtctcaatctgaagctcgaacaaaggaggggacatcttcaaaattgga	1260
O	y	1261	ggactcagccccaaggctgcgcgggtctgtgtgggcatctcgcaagaaacgctccgcgcaatgaactg	1320
D	b	1261	ggactcagccccaaggctgcgcgggtctgtgtgggcatctcgcaagaaacgctccgcgcaatgaactg	1320
O	y	1321	cgacaagactgagccgcgtccatctcgcaagattatcaagaagaggcatcaltccggaagcaga	1380
D	b	1321	cgacaagactgagccgcgtccatctcgcaagattatcaagaagaggcatcaltccggaagcaga	1380
O	y	1381	catctccacagggccttgctactcaagatttgctgacaccccatctgaagtgcctcgccacgggccc	1440
D	b	1381	catctccacagggccttgctactcaagatttgctgacaccccatctgaagtgcctcgccacgggccc	1440

```

OY 1441 tgaacccgcccctcaggggctctctctctgctgcctgcctcagccagccctagatg 1500
Db 1441 tgaacccgcccctcaggggctctctctctgctgcctgcctcagccagccctagatg 1500
OY 1501 ggggaaacaggcagctgctgctctgctctgctctcagctccagagcccaaggtcagggag 1560
Db 1501 ggggaaacaggcagctgctgctctgctctgctctgctctcagctccagaggtcagggag 1560
OY 1561 gcaaccaactgcgcccaaggggagatagtggtctctgggacctcgggacataggggcaagg 1620
Db 1561 gcaaccaactgcgcccaaggggagatagtggtctctgggacctcgggacataggggcaagg 1620
OY 1621 gfgctctctctcagggcccaagctgtgtcccttgaggagaaaggaggaaggctctccc 1680
Db 1621 gfgctctctctcagggcccaagctgtgtcccttgaggagaaaggaggaaggctctccc 1680
OY 1681 caacacctgcctcttaccccaagcttctccagagcagagcctcaagaaggcagtgactcg 1740
Db 1681 caacacctgcctcttaccccaagcttctccagagcagagcctcaagaaggcagtgactcg 1740
OY 1741 acaaaagccacagcagcttcacagctctctctgtctccatccctgctccatcttga 1800
Db 1741 acaaaagccacagcagcttcacagctctctctgtctccatccctgctccatcttga 1800
OY 1801 ccacccctgcagctgctgcagggagagacatctgacccctcagttgggcagcagaggtgccc 1860
Db 1801 ccacccctgcagctgctgcagggagagacatctgacccctcagttgggcagcagaggtgccc 1860
OY 1861 cccgggaatgagataataagatactagaagactg 1894
Db 1861 cccgggaatgagataataagatactagaagactg 1894

RESULT 2
US-10-172-118-1406
; Sequence 1406, Application US/10172118
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 1406
; LENGTH: 1894
; TYPE: DNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
; PUBLIC INFORMATION:
; DATABASE ACCESSION NUMBER: NM_012391
; DATABASE ENTRY DATE: 2001-06-18
; US-10-172-118-1406

Query Match 98.7%; Score 1870; DB 7; Length 1894;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1879; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

OY 1 gctcactctctccacagacatctctctgcactctgcgtgtccacacatgcccacagacc 60
Db 1 gctcactctctccacagacatctctctgcactctgcgtgtccacacatgcccacagacc 60
OY 61 agtctccaagctgtctgcagctccctctgcaagccctcagttggtgcttgcagtg 120
Db 61 agtctccaagctgtctgcagctccctctgcaagccctcagttggtgcttgcagtg 120

```

Db 61 agtctccaaagctgtgcccagctccctgcaagccctcaggttggtgtgccaagctg 120  
Qy 121 ccagcagcagcagcctgtggtgagtgaaaggaaatccctacagcagcagcctgaaac 180  
Db 121 ccagcagcagcagcctgtggtgagtgaaaggaaatccctacagcagcagcctgaaac 180  
Qy 181 gccacacagcagcagccttgagggtagccagagcccccagtgagccaaactgagtgccct 240  
Db 181 gccacacagcagcagccttgagggtagccagagcccccagtgagccaaactgagtgccct 240  
Qy 241 gccacacagcagcctgtgcccctgtgcccctgcccacagatgctgtgtagaacagc 300  
Db 241 gccacacagcagcctgtgcccctgtgcccctgcccacagatgctgtgtagaacagc 300  
Qy 301 cagtgagcctcagctgcccacacactctcccccagccttgaggttgagctgacagcagaaag 360  
Db 301 cagtgagcctcagctgcccacacactctcccccagccttgaggttgagctgacagcagaaag 360  
Qy 361 cctccctgggcaacagcagctaaacagacagccgcaagcccaaaacagcagcgagtgag 420  
Db 361 cctccctgggcaacagcagctaaacagacagccgcaagcccaaaacagcagcgagtgag 420  
Qy 421 cagcagcagcagcctgtgctgagcagctatcccccagcagcctcctgtgcccctgagac 480  
Db 421 cagcagcagcagcctgtgctgagcagctatcccccagcagcctcctgtgcccctgagac 480  
Qy 481 ggtgtcgcagcagagcttgagaaagcgagcagcgagggagctgagtgctcgcagaaagcag 540  
Db 481 ggtgtcgcagcagagcttgagaaagcgagcagcgagggagctgagtgctcgcagaaagcag 540  
Qy 541 cgggagctccagctcacaacagcccgagagagcgctgtccgcttcagactctccta 600  
Db 541 cgggagctccagctcacaacagcccgagagagcgctgtccgcttcagactctccta 600  
Qy 601 ctttgacatgctgtaacctgagaaagcagcagctgggcaagcccaagccttgagcagag 660  
Db 601 ctttgacatgctgtaacctgagaaagcagcagctgggcaagccttgagcagag 660  
Qy 661 tcgggagagagcacaactgagaaagctgagcagtgccggtcatctgacagcccaagc 720  
Db 661 tcgggagagagcacaactgagaaagctgagcagtgccggtcatctgacagcccaagc 720  
Qy 721 ggggacccctggagctgtgcccggcggtgagccttgagagagcactgagaaagctg 780  
Db 721 ggggacccctggagctgtgcccggcggtgagccttgagagagcactgagaaagctg 780  
Qy 781 ggaatccatgctgtgagcagaaagtgtctcaagagacatcgagcagcctgcaaaactgctaa 840  
Db 781 ggaatccatgctgtgagcagaaagtgtctcaagagacatcgagcagcctgcaaaactgctaa 840  
Qy 841 catcaacagcagatcccatgagctgagcccaagcaatgtgcaaaagtgtctctgtgagc 900  
Db 841 catcaacagcagatcccatgagctgagcccaagcaatgtgcaaaagtgtctctgtgagc 900  
Qy 901 agagacacaaatcccgctgtgcccacatgagcagccttcacagagcctgagcgagcaagga 960  
Db 901 agagacacaaatcccgctgtgcccacatgagcagccttcacagagcctgagcgagcaagga 960  
Qy 961 gctgtgagcagctgtgagaaagcagctcccgacagcctgcccctgaggttgagaaagtgtct 1020  
Db 961 gctgtgagcagctgtgagaaagcagctcccgacagcctgcccctgaggttgagaaagtgtct 1020  
Qy 1021 gcaagcacaactgagacatctgaaagtcaagggcctgagtgaaagagcaggaactcactg 1080  
Db 1021 gcaagcacaactgagacatctgaaagtcaagggcctgagtgaaagagcaggaactcactg 1080  
Qy 1081 ggcgataactactgtgctcgacagatgagagagctgagcagcagcgaggtgagctgactc 1140  
Db 1081 ggcgataactactgtgctcgacagatgagagagctgagcagcagcgaggtgagctgactc 1140  
Qy 1141 atcatgctccggcagcccatcacactgtgagcagctcctcaagaggtgtgtctcctaagcc 1200  
Db 1141 atcatgctccggcagcccatcacactgtgagcagctcctcaagaggtgtgtctcctaagcc 1200

Qy 1201 ccacagctatgcccgtctcatagtggtgtcacaagagagaggaactcttcaaaatgaa 1260  
Db 1201 ccacagctatgcccgtctcatagtggtgtcacaagagagaggaactcttcaaaatgaa 1260  
Qy 1261 ggaactcagcccaagtggtgcccgtgtgtgggcatcccgaaagaaacggtccgcacatgaa 1320  
Db 1261 ggaactcagcccaagtggtgcccgtgtgtgggcatcccgaaagaaacggtccgcacatgaa 1320  
Qy 1321 cgaacagctgagccgcctccatccgcagagctcttacaagaaagagcatalccggaagcaga 1380  
Db 1321 cgaacagctgagccgcctccatccgcagagctcttacaagaaagagcatalccggaagcaga 1380  
Qy 1381 catctccagcgcctgtgtctacacagctcgtgcaaccccatctgagctggtgcccagggcc 1440  
Db 1381 catctccagcgcctgtgtgtctacacagctcgtgcaaccccatctgagctggtgcccagggcc 1440  
Qy 1441 tgaacccgcctcagagggcctctctctctgtgctgctgctgctcagcagcagcctgagatg 1500  
Db 1441 tgaacccgcctcagagggcctctctctctgtgctgctgctgctcagcagcagcctgagatg 1500  
Qy 1501 ggggaaaaacgagctgtgtctgt 1560  
Db 1501 ggggaaaaacgagctgt 1560  
Qy 1561 gcaacccaactgcccagggagatatggtctcctgtgggaccttcggagacatgggagcag 1620  
Db 1561 gcaacccaactgcccagggagatatggtctcctgtgggaccttcggagacatgggagcag 1620  
Qy 1621 gtgtctcctcctcagcagcctgt 1680  
Db 1621 gtgtctcctcctcagcagcctgt 1680  
Qy 1681 caaacactgctctgaccccaagcattccacagagcagagccttacaagagggcagtgactcg 1740  
Db 1681 caaacactgctctgaccccaagcattccacagagcagagccttacaagagggcagtgactcg 1740  
Qy 1741 acaaaagcacaagcagctcagcagcctctctgtctcattccatccctgctccatctgca 1800  
Db 1741 acaaaagcacaagcagctcagcagcctctctgtctcattccatccctgctccatctgca 1800  
Qy 1801 ccaacactgagctgtgacagagagacatctgacacccctgagtgagcagccagagtgcc 1860  
Db 1801 ccaacactgagctgtgacagagagacatctgacacccctgagtgagcagccagagtgcc 1860  
Qy 1861 ccgagaaatgataataaagatacagaactg 1894  
Db 1861 ccgagaaatgataataaagatacagaactg 1894

RESULT 3  
US-10-157-031-83  
; Sequence 83, Application US/10157031  
; GENERAL INFORMATION:  
; APPLICANT: Baranova, A. V.  
; APPLICANT: Yankovsky, N. K.  
; APPLICANT: Kozlov, A. P.  
; APPLICANT: Lobashev, A. V.  
; APPLICANT: Krivokhaya, L. L.  
; TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequence  
; FILE REFERENCE: 2760-103  
; CURRENT APPLICATION NUMBER: US/10/157,031  
; NUMBER OF SEQ ID NOS: 415  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO: 83  
; LENGTH: 1942  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-157-031-83  
Query Match 98.4%; Score 1864.4; DB 7; Length 1942;









```

Db 1000 catgagatgggggaatcgcgcataagagcgcttcaagttccgtccgcagcgtctggc 1059
Oy 1279 ccgagctgtgggggcatcccgcaagaacccgtccgcatactctggacaagctgaagccgc 1338
Db 1060 ccaactatggggccaaaagaaaagaacagcagcatgactctcaggaagctgaagccgggc 1119
Oy 1339 catccgcacgtcttcaagaagggagcatcatccggaagccagacatcccaagcgcctcgt 1398
Db 1120 catggg---gtactactacaagaacgggagatctctgtgaacggtgtgagtggccgycgactcgt 1176
Oy 1399 ctaccagttcg 1409
Db 1177 ctacaagtttg 1187

RESULT 11
US-10-099-926-1680
; Sequence 1680, Application US/100999926
; GENERAL INFORMATION:
; APPLICANT: King, Gordon E.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Xu, Jiangchun
; APPLICANT: Secrist, Heather
; APPLICANT: Jiang, Yugu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.547C2
; CURRENT APPLICATION NUMBER: US/10/099,926
; CURRENT FILING DATE: 2002-03-17
; NUMBER OF SEQ ID NOS: 1982
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 1680
; LENGTH: 2642
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-099-926-1680

Query Match 4.0%; Score 75; DB 7; Length 2642;
Best Local Similarity 81.3%; Pred. No. 2.8e-05;
Matches 87; Conservative 0; Mismatches 20; Indels 0; Gaps 0.

Oy 1269 cccaaggtggcccgctgttggggcatccgcgaagaacgctccgcatactgaactgcgaacagc 1328
Db 1245 cccaggttgcgcaggtctctggggcatccgaagaacgcggccagcagcatgaattcagacaagc 1304
Oy 1339 tgaagcgcgtccatccgcagcttctacaagaaggagcatcatccggaag 1375
Db 1305 tgaagcgcgtccgtccgatactatgatgaagaagcattcagagaag 1351

RESULT 12
US-09-654-788A-107
; Sequence 107, Application US/09654788A
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; FILE REFERENCE: MRI-006A
; CURRENT APPLICATION NUMBER: US/09/654,788A
; CURRENT FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/152,547
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/190,347
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/191,321
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/208,382
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 60/220,467

```

```

; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 157
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 3045
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-654-788A-107

Query Match      4.0%; Score 75; DB 5; Length 3045;
Best Local Similarity 59.0%; Pred. No. 2.8e-05;
Matches 148; Conservative 0; Mismatches 100; Indels 3; Gaps 1;

OY 1159 catccacctgtgcagatccctcaagaagttgttactcaagcccccacagctatgscgctt 1218
Db 982 caccaccactgtgaggatctcatccggtggaacatcctcaccgccgagctcaagaagcgct 1041
OY 1219 cattagtgctcaacaagaaggaagcatcttcaaaattgaagactcagcccaagttgac 1278
Db 1042 catgagtgaggagaatcgcgatgaagcgctctcaagtctcctgcgtccgagcgctgtgc 1101
OY 1279 ccgagctgtggggcatcccgcaagaccgctccgcatgtaacttgcgcaagcttgagccgctc 1338
Db 1102 ccaactatggggcccaaaagaagaacagcacatgacctacgagaagctgaagccgggc 1161
OY 1339 catccgcagctctcaagaagggcatcatccggaagccagacatctcccaagcctcgt 1398
Db 1162 catgg---gtactactactcaaacgggagatcctctggaacgggtgagttgcccggcgaactcgt 1218
OY 1399 ctaccagttcg 1409
Db 1219 ctacaagttcg 1229

RESULT 13
US-10-167-485-1
; Sequence 1, Application US/10167485
; GENERAL INFORMATION:
; APPLICANT: FUJINAGA, Kei
; YOSHIDA, Koichi
; HIGASHINO, Fumihito
; TITLE OF INVENTION: CANCER CONTROL
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 624 Ninth Street N.W., Ste. 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20001
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/167,485
; FILING DATE: 13-Jun-2002
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/602,868
; FILING DATE: <unknown>
; APPLICATION NUMBER: 08/875,944
; FILING DATE: <unknown>
; APPLICATION NUMBER: PCT/JP96/00016
; FILING DATE: 09-JAN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: FUJINAGA-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 628-5197

```



```
; TELERAX: (202) 737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2064 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1386
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-167-485-1
```

Query Match 3.9%; Score 74.8; DB 6; Length 2064;

Best Local Similarity 74.6%; Pred. No. 3e-05; Mismatches 32; Indels 0; Gaps 0;

```
QY 1250 ttcaaatgagactgagccaggtgcccgcctgtgggcatccgcaagaacgctccc 1309
DB 1039 ttcaagctcattgagccttgagaggtccgacgctctggggcatccagaacccgcca 1098
QY 1310 gccatgacgcgcgaacagctgagccgctcatccagctcttaagaaggacatc 1369
DB 1099 gccatgattacgacagctgagccgctcctccgattattatgagaaaggacatc 1158
QY 1370 cggagag 1375
DB 1159 cagagag 1164
```

```
RESULT 14
US-10-099-926-1788
; Sequence 1788, Application US/10099926
; GENERAL INFORMATION:
; APPLICANT: King, Gordon E.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Xu, Jiangchun
; APPLICANT: Secrist, Heather
; APPLICANT: Jiang, Yugu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.547c2
; CURRENT APPLICATION NUMBER: US/10/099,926
; CURRENT FILING DATE: 2002-03-17
; NUMBER OF SEQ ID NOS: 1982
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1788
; LENGTH: 2333
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-099-926-1788
```

Query Match 3.9%; Score 74.8; DB 7; Length 2333;

Best Local Similarity 74.6%; Pred. No. 3e-05; Mismatches 32; Indels 0; Gaps 0;

```
QY 1250 ttcaaatgagactgagccaggtgcccgcctgtgggcatccgcaagaacgctccc 1309
DB 1308 ttcaagctcattgagccttgagaggtccgacagctctggggcatccagaagaacggcca 1367
QY 1310 gccatgacgcgcgaacagctgagccgctcatccagctcttaagaaggacatc 1369
DB 1368 gccatgattacgacagctgagccgctcctccgattattatgagaaaggacatc 1427
QY 1370 cggagag 1375
DB 1428 cagagag 1433
```

RESULT 15

```
PCT-US02-12378-282
; Sequence 282, Application PCT/US0212378
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleath, Paul R.
; APPLICANT: Persing, David H.
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Durham, Margarta
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.4703PC
; CURRENT APPLICATION NUMBER: PCT/US02/12378
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US02-12378-282
```

Query Match 3.9%; Score 74; DB 1; Length 502;

Best Local Similarity 59.5%; Pred. No. 4.3e-05; Mismatches 85; Indels 0; Gaps 0;

```
QY 1159 catccactggtgcaggtctccccaaggaattgtactcaagcccaagctatgcccgt 1218
DB 269 caccacactggtggaattcattccggtgacatctcaccaggagctcaaggggacct 328
QY 1219 catgagtggtcacaagaaggaagggatcttcaaatgtagagctcagccaggtggtc 1278
DB 329 catgaagtggtggaattcgtcgaagggctctcaagttcctgctcgtcgtcgtggtggtc 388
QY 1279 ccggtctgtgggcatccgcaagaacccgtccgcgcatgaactggaagctgaagccgtc 1338
DB 389 ccaactatggtgccaagaagaagaacaagaacacatgactcagaagctgaagccgggc 448
QY 1339 catccgcaagctcttaagaagaaggacatc 1368
DB 449 catgagttactactacaacgggagatcct 478
```

Search completed: August 6, 2002, 20:55:39  
Job time: 9463 sec



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 18:16:51 ; Search time 87.61 Seconds

(Without alignments)  
5310.237 Million cell updates/sec

Title: US-09-841-963A-1

Perfect score: 1894  
Sequence: 1 gtttgacttcctccacgac.....ataagatactagagaactg 1894

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents, NA: \*  
1: /cgn2\_6/ptodata/2/lna/5A.COMB.seq: \*  
2: /cgn2\_6/ptodata/2/lna/5B.COMB.seq: \*  
3: /cgn2\_6/ptodata/2/lna/6A.COMB.seq: \*  
4: /cgn2\_6/ptodata/2/lna/6B.COMB.seq: \*  
5: /cgn2\_6/ptodata/2/lna/PCrUS.COMB.seq: \*  
6: /cgn2\_6/ptodata/2/lna/backfile1.seq: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1861.4	98.3	1905	4 US-09-055-113-2	Sequence 2, Appli
2	263	13.9	278	4 US-09-439-313-398	Sequence 398, App
3	83.2	4.4	2266	2 US-09-213-767-1	Sequence 1, Appli
4	75.2	4.0	2667	2 US-08-469-412A-1	Sequence 1, Appli
5	75.2	4.0	2667	4 US-09-021-715-1	Sequence 1, Appli
6	74.8	3.9	2064	3 US-08-875-944B-1	Sequence 1, Appli
7	74.8	3.9	2064	4 US-09-116-049-3	Sequence 3, Appli
8	73.4	3.9	1920	1 US-08-746-789A-1	Sequence 1, Appli
9	71	3.7	2938	2 US-08-343-443B-3	Sequence 1, Appli
10	70.2	3.7	2410	2 US-08-760-835B-1	Sequence 3, Appli
11	70.2	3.7	2410	4 US-09-303-268-1	Sequence 1, Appli
12	70.2	3.7	2410	4 US-09-116-049-1	Sequence 1, Appli
13	64.8	3.4	1752	4 US-09-360-779-1	Sequence 1, Appli
14	63	3.3	2268	3 US-09-344-579-1	Sequence 1, Appli
15	58.4	3.1	2544	2 US-08-469-412A-6	Sequence 1, Appli
16	58.4	3.1	2544	4 US-09-021-715-6	Sequence 6, Appli
17	57.4	3.0	852	4 US-09-020-956-4	Sequence 4, Appli
18	57.4	3.0	852	4 US-09-030-607-4	Sequence 44, Appli
19	57.4	3.0	852	4 US-09-439-313-4	Sequence 44, Appli
20	57.4	3.0	5427	3 US-09-009-913-2	Sequence 2, Appli
21	57.4	3.0	5510	3 US-09-009-913-3	Sequence 3, Appli
22	57.4	3.0	5667	3 US-09-009-913-4	Sequence 4, Appli
23	57.2	3.0	2975	1 US-08-368-281-1	Sequence 1, Appli
24	57.2	3.0	3240	1 US-08-368-281-3	Sequence 3, Appli
25	56.4	3.0	1604	1 US-08-306-691B-4	Sequence 4, Appli
26	56.4	3.0	1604	5 PCT-US93-06251-9	Sequence 9, Appli
27	54.8	2.9	848	3 US-09-009-913-338	Sequence 338, App

28	50.2	2.7	1447	4 US-08-878-177-1	Sequence 1, Appli
29	50.2	2.7	1528	4 US-08-878-177-3	Sequence 3, Appli
30	46.2	2.4	1035	1 US-07-601-094-30	Sequence 30, Appli
31	46.2	2.4	1035	1 US-08-012-735-30	Sequence 30, Appli
32	46.2	2.4	1281	4 US-08-998-416-3	Sequence 3, Appli
33	46.2	2.4	1910	4 US-09-593-711A-3	Sequence 3, Appli
34	46.2	2.4	1914	1 US-07-601-094-1	Sequence 1, Appli
35	46.2	2.4	1914	1 US-08-012-735-1	Sequence 1, Appli
36	45.8	2.4	1364	1 US-08-306-691B-50	Sequence 16, Appli
37	45.8	2.4	1523	3 US-09-128-155-16	Sequence 65, Appli
38	45.2	2.4	1523	3 US-09-105-537-1	Sequence 182, App
39	44.6	2.4	985	4 US-09-056-556-182	Sequence 1, Appli
40	44	2.3	2367	4 US-09-773-816-1	Sequence 1, Appli
41	43.6	2.3	1587	4 US-09-105-537-1	Sequence 1, Appli
42	43.6	2.3	43280	2 US-08-804-227C-1	Sequence 1, Appli
43	43	2.3	19182	2 US-08-850-880-11	Sequence 11, Appli
44	43	2.3	19182	2 US-08-944-916-11	Sequence 11, Appli
45	42.6	2.2	1227	4 US-09-385-028-23	Sequence 23, Appli

## ALIGNMENTS

RESULT 1  
US-09-055-113-2  
; Sequence 2, Application US/09055113  
; Patent No. 6265565  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Lal, Preeti  
; TITLE OF INVENTION: PROSTATE-ASSOCIATED ETS PROTEIN  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/055,113  
; FILING DATE: Filed Herewith  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0501 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1905 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: PROSTUT12  
; CLONE: 1813005  
; US-09-055-113-2

Query Match 98.3% Score 1861.4; DB 4; Length 1905;

Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1871; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

```
QY 1 gctctctctccacacatctcgcactcgtccgtctccacatgcccccaaaccc 60
Db 15 gctctctctccacacatctcgcactcgtccgtctccacatgcccccaaaccc 74
QY 61 agctctccaaagctctgcaagctccctcaagccctcaagcttgagcttgcaagtg 120
Db 75 AGTCTCTCAAGCCTGGTGGCAGCTCCCTTGAAAGCCCTCAAGTTGGGCTTGCAAGG 134
QY 121 ccaagcaagcagcccttggtggtgtaagggactccctcaagcagcagccctgagcc 180
Db 135 CCAGCAGGAGCCCTGGGCTGGGGTAGGGGACTCCCTAGCAGCAGCCCTTGAGACC 194
QY 181 gcaacacagccccccttgaaaggtgagcaagccccagttgcaaacctgagtgctct 240
Db 195 TCAGAGAGGACACCCCTTGAGAGGTTGCCAGGCCCCCAGTGCCCAACTGAGTGCCTCT 254
QY 241 gcaacacagccctgctgagccctgctcgcctgagcccccagatgcttgagacagc 300
Db 255 GCCACGAGCCCTGCTGGCCCTGTTCCGCTGGCCCCCAGATGCTTGAGTGGAGACGC 314
QY 301 caatgagcttaagctgagccacacctctcccgagccctgagagttgcaactgagcagag 360
Db 315 CAGTGGCTCTAGCTGCCACACCTTCCTCCGCTGGAAGTTGGACATGACACAGACAG 374
QY 361 ctcccttgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 420
Db 375 CTCCCTGGGACACAGCAGCAGTAAACAGACAGCCGACAGCCCAAGACAGCGCATGGG 434
QY 421 cagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 480
Db 435 CAGCAGCAGCCGCGGCTGTAGAGCGCTATCCCCAGACCACTCTCTCCCCCGACAC 494
QY 481 ggtgtcggagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 540
Db 495 GGTGTCCGGAGCAGCAGCTTGAGAGAGGCGAGCGGGGAGAGTGGTCTGAGAGAGAGGGA 554
QY 541 ctgagagtcacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 600
Db 555 CTGGAGTCCCAAGTCAACCCGCCACGCCGAGCAGGGGCTGTCCGCTTACTCTCTCA 614
QY 601 ctttgagacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 660
Db 615 CTTTGACATGCTGTACCTTGAGAGCAGCAGCTGGGAGCCCAAGGCCCCCTGGGGCCAG 674
QY 661 tgggagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 720
Db 675 TCGGAGAGAGCCACTGAGAGAGCCTTACAGTCCCGGTCTATTGACAGAGCCAGCCAGC 734
QY 721 gggcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 780
Db 735 GGGCAGCAGCTGACTGTGGTGGCCCGGGGCTGACCTTGAGAGAGCACTCCCTGGAGCAG 794
QY 781 gcaagtcagtggtggtgagcagcagcagcagcagcagcagcagcagcagcagcagcag 840
Db 795 GCAAGTCCATGTGTGGTGGGCAAGTGTCAAGGACATCGAGAGCGCTGCAAGAGTGTCTCA 854
QY 841 catcacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 900
Db 855 CATCACCGCAGATCCATGTGAGTGGAGCCCGCAGCAATGTGCAAGATGGCTCTGTGGAGC 914
QY 901 agagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 960
Db 915 AGAGCAGCAGATACCGGTGGCCCGCCATGGGCAAGGCTTCAGAGAGACTGGCGGCAAGGA 974
QY 961 gctgtgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1020
Db 975 GCTGTGCGCATGTGTGGAGAGAGTTCGGCCAGCCCTGCGCCCTGGTGGGAGATGTGCT 1034
QY 1021 gcaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1080
```

```
Db 1035 GCAGCCGACCACTGAGCATGTGGAAGTCAAGCGGCTGTGATGAAGAGCGGCACTTCACCTGG 1094
QY 1081 ggcagatcaactactgtgctcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1140
Db 1095 GGCAGTTACTACTGTGCTTGACCCAGTGAAGAGAGCTTGAGCCAGACCGAGGAGTACTC 1154
QY 1141 atcagctccgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1200
Db 1155 ATCATGTCTCGGAGAGCCCATTCACCTGTGGAGAGTTCCTCAAGAGAGTGTACTCAAGGCC 1214
QY 1201 ccaacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1260
Db 1215 CCACAGCTATGGCCGCTTCATTAAGTGTGCTCAACAGAGAGAGGCAATCTTCAAAATTTGA 1274
QY 1261 ggaactcaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1320
Db 1275 GGACTCAGCCAGAGTGGGCGCCGCTGTGGGGATTCGCAAGAACCTGCTCCGCAATGAATTA 1334
QY 1321 cgaacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1380
Db 1335 CGACAAAGCTGAGCCGCTCATCCGCAATTAACAAAGAGGCAATCCGGAAGCCAGA 1394
QY 1381 catctccagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1440
Db 1395 CATCTCCAGCGCCTCTGCTACCAATGTTGTACACCCCAATGAGTGTGCTGGCCCAAGG 1454
QY 1441 tgaacccgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1500
Db 1455 TGAACCCGCGCTCAGGGGCGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1514
QY 1501 ggggaaacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1560
Db 1515 GGGGAAACAGCGGAGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1574
QY 1561 gcaacacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1620
Db 1575 GCAACCAATGCTCCAGGAGGAGTATGGTCTCTGAGGCGCTTCCGAGCCCTGGGGCAGAGG 1634
QY 1621 gtcctctcctcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1680
Db 1635 GTGCTCTCTCTCAGAGCCGCAAGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1694
QY 1681 caaacctgctctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1740
Db 1695 CAACACTGCTCTGAGCCCAAGCAATTCAGAGAGAGAGCCTACAGAGAGGAGAGTACTCG 1754
QY 1741 acaagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1800
Db 1755 ACAAGAGCCACAGCAGTGCAGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1814
QY 1801 ccacacctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1860
Db 1815 CCACACTGAGCAGTGTGAGAGGAGAGCAGTGTGACACCCCTGAGATTGGGAGCCAGAGAGTGC 1874
QY 1861 cccgggaatgataataaagatactag 1887
Db 1875 CCGGGGAATGATATAAAGATACTAG 1901
```

RESULT# 2

US-09-439-313-398

; Sequence 398; Application US/09439313.

; Patent No. 6329505

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan Louise

; APPLICANT: Jiang Yuqun

; APPLICANT: Reed, Steven G.

; APPLICANT: Kalos, Michael

; APPLICANT: Fanger, Gary

; APPLICANT: Retter, Mark

```

? APPLICANT: Solk, John
? APPLICANT: Day, Craig
? TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
? TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
? FILE REFERENCE: 210121.42769
? CURRENT APPLICATION NUMBER: US/09/439,313
? CURRENT FILING DATE: 1999-11-12
? NUMBER OF SEQ ID NOS: 575
? SOFTWARE: FastSeq for Windows Version 3.0
? SEQ ID NO 398
? LENGTH: 278
? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: (1)..(278)
? OTHER INFORMATION: n = A,T,C or G
? OS-09-439-313-398

```

Query Match	13.9%	Score 263;	DB 4;	Length 278;
Best Local Similarity	99.6%;	Pred. No. 3.8e-48;		
Matches 263; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

QY	981	agcagcttcgcgcacgcgcctcgcgccttcgggtgggagatctgctgaagcccaactggagacct	1040
Db	15	agcagcttcgcgcacgcgcctcgcgccttcgggtgggagatctgctgaagcccaactggagacct	74
QY	1041	ggaagtcagcgccttcgatatgaagaagcgcgactcacactcgtggcgatctcaactactgtgctt	1100
Db	75	ggaagtcagcgccttcgatatgaagaagcgcgactcacactcgtggcgatctcaactactgtgctt	134
QY	1101	cgacacatcgagggagagctcgagaccggaagcgaggttgagactcactgagccgcggagccca	1160
Db	135	cgacacatcgagggagagctcgagaccggaagcgaggttgagactcactgagccgcggagccca	194
QY	1161	tccacactctggtgcagcttctctcaagaagagctctgctactcaagccccaagctatctgcccgttca	1220
Db	195	tccacactctggtgcagcttctctcaagaagagctctgctactcaagccccaagctatctgcccgttca	254
QY	1221	tttagtgtgctccaacaaggaggaag	1244
Db	255	tttagtgtgctccaacaaggaggaag	278

```

RESULT      3
US-09-213-767-1
: Sequence 1, Application US/09213767
: Patent No. 5948680
:
: GENERAL INFORMATION:
: APPLICANT: Brenda F. Baker
: APPLICANT: Lex M. Cowsett
: TITLE OF INVENTION: ANTISENSE MODULATION OF ELK-1 EXPRESSION
: FILE REFERENCE: RTS--0024
: CURRENT APPLICATION NUMBER: US/09/213,767
: CURRENT FILING DATE: 1998-12-17
: NUMBER OF SEQ. ID NOS: 47
: SEQ ID NO 1
:
: LENGTH: 2266
:
: TYPE: DNA
:
: ORGANISM: Homo sapiens
:
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (316)..(1602)
: US-09-213-767-1

```

Query Match: 4.4%; Score 83.2; DB 2; Length 2266;  
Best Local Similarity 59.8%; Pred.No. 2.5e-09;  
Matches 177; Conservative 0; Mismatches 113; Indels 6; Gaps 2.

Oy 1166 ctgtgacagtctcctaagagtgctactcaagcccccacagctaggcgctcatagg 1225  
||||| | | | | || | | | |

[illegible]

RESULT 4  
US-08-469-412A-1  
; Sequence 1, Application US/08469412A  
; Patent No. 5856125

```

1 GENERAL INFORMATION:
2 APPLICANT: Mavrothlassitis, George J.
3 APPLICANT: Blair, Donald G.
4 APPLICANT: Fisher, Robert J.
5 APPLICANT: Beal Jr., Gregory J.
6 APPLICANT: Athanasiou, Meroji A.
7 APPLICANT: Sgouras, Dionysios N.
8 TITLE OF INVENTION: The ERF Genetic Locus and its Products
9 NUMBER OF SEQUENCES: 16
10 CORRESPONDENCE ADDRESS:
11 ADDRESSEE: Townsend and Townsend and Crew LLP
12 STREET: Two Embarcadero Center, Eighth Floor
13 CITY: San Francisco
14 STATE: California
15 COUNTRY: USA
16 ZIP: 94111-3834
17
18 COMPUTER READABLE FORM:
19 MEDIUM TYPE: Floppy disk
20 COMPUTER: IBM PC compatible
21 OPERATING SYSTEM: PC-DOS/MS-DOS
22 SOFTWARE: PatentIn Release #1.0, Version #1.30
23 CURRENT APPLICATION DATA:
24 APPLICATION NUMBER: US-08/469,412A
25 FILING DATE: 05-JUN-1995
26
27 CLASSIFICATION: 435
28 ATTORNEY/AGENT INFORMATION:
29 NAME: Garrett-Wackowski, Eugenia
30 REGISTRATION NUMBER: 37,330
31 REFERENCE/DOCKET NUMBER: 015280-229000
32 TELECOMMUNICATION INFORMATION:
33 TELEPHONE: (415) 576-0200
34 TELEFAX: (415) 576-0300
35
36 INFORMATION FOR SEQ ID NO: 1:
37 SEQUENCE CHARACTERISTICS:
38 LENGTH: 2667 base pairs
39 TYPE: nucleic acid
40 STRANDEDNESS: single
41 TOPOLOGY: linear
42 MOLECULE TYPE: cDNA
43
44 FEATURE:
45 NAME/KEY: CDS
46 LOCATION: 123..1769
47 OTHER INFORMATION: /note="human ERF (ETS2 Repressor
48 OTHER INFORMATION: factor) cDNA"
49
50 US-08-469-412A-1

```

Query Match	4.08;	Score	75.2;	DB	2;	Length	2667;
Best Local Similarity	59.18;	Pred.	No.1.3e-07;				
Matches	150;	Conservative	0;	Mismatches	98;	Indels	6;
						Gaps	1;

OY	1124	gacaggagggatggagctcatcatatgctccgggcgaagcccatccactctgtggaggtctccaaag	118
Db	165	GCCTACAAAGCCAGAGTGTGTCCCTGGCTCAAGGCAAGATCCAGCTGTGGCATTTATCTCG	224
OY	1184	gagtgctactactcaagcccaccaagctatgagcgcgtctcatatgagtgtgtctacacaagaagaa	1243
Db	225	GAGCTGCTGCTCGGAGGAGAGGTACCAAGGCGGTATTGTCTGGCAGGGGAGTACGGGGAA	284
OY	1244	ggagctcttcacaaattgtggagctcaagcccaggtgtgcccgtctgtggggactccgcaagaac	1303
Db	285	TTTCGTCATCAAAA-----GACCCGTGATGAAGTGTCCCGGTGTGGGGCCTTTGGCAAAATGC	338
OY	1304	cgctccgcctatgaacttgagcaaaactlgagcgcgtctcatctccgccaagtcttacaagaagggc	1363
Db	339	AAGCCCGGATGAATTACAGCAAGAGCTGAGCGGGCCCTGGCTATTATTAACAAGGCC	398
OY	1364	atcatctcggaagacc	1377
Db	399	ATTCTGCACAAAGAC	412

```

US-09-021-715-1
: Sequence 1, Application US/09021715
: Patent No. 6194547
: GENERAL INFORMATION:
: APPLICANT: Mavrothalassitis, George J.
:      Blair, Donald G.
:      Fisher, Robert J.
:      Beal Jr., Gregory J.
:      Athanasiou, Metropi A.
:      Sgouras, Dionyssios N.
: TITLE OF INVENTION: The ERF Genetic Locus and Its Products
: NUMBER OF SEQUENCES: 16
: CORRESPONDENCE ADDRESS:
:      ADDRESSEE: Townsend and Townsend and Crew LLP
:      STREET: Two Embarcadero Center, Eighth Floor
:      CITY: San Francisco
:      STATE: California
:      COUNTRY: USA
:      ZIP: 94111-3834
: COMPUTER READABLE FORM:
:      MEDIUM TYPE: Floppy disk
:      COMPUTER: IBM PC compatible
:      OPERATING SYSTEM: PC-DOS/MS-DOS
:      SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
:      APPLICATION NUMBER: US/09/021,715
:      FILING DATE: 10-Feb-1998
:      CLASSIFICATION: <unknown>
: ATTORNEY/AGENT INFORMATION:
:      NAME: Garrett-Wackowski, Eugenia
:      REGISTRATION NUMBER: 37,330
:      REFERENCE/DOCKET NUMBER: 015280-229000
:      TELECOMMUNICATION INFORMATION:
:      TELEPHONE: (415) 576-0200
:      TELEFAX: (415) 576-0300
: INFORMATION FOR SEQ ID NO: 1:
:      SEQUENCE CHARACTERISTICS:
:          LENGTH: 2667 base pairs
:          TYPE: nucleic acid
:          STRANDEDNESS: single
:          TOPOLOGY: linear
:      MOLECULE TYPE: cDNA
:      FEATURE:
:          NAME/KEY: CDS
:          LOCATION: 123..1769
:          OTHER INFORMATION: /note="human ERF (ETS2 Repressor
:              Factor) cDNA"
: SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-021-715-1

```

Query Match	4.0%:	Score 75.2:	DB 4:	Length 2667:
Best Local Similarity	59.1%:	Pred. No. 1.3e-07:		
Matches 150:	Conservative	0:	Mismatches 98:	Indels 6:
				Gaps 1:
QY 1124	gacagcgaagtgtagcatcatcgtctccggcgcaagccatccacctgtggaagttcctcaag			1183
Db 165	GCCTTCAMGCCAGAGTCGTCCTCCCTGGCTTCAGGCAGATCACTGTGGCACTTTATCTCG			224
QY 1184	gaattgtactactaaagcccccacagactatgycgccttcattagtgtgctcacaaggaagaag			1243
Db 225	GAGTGCTGCTGGGAAGAAGAGAGTACCAAGGGCGTCATTGGCTGGCAAGGGGAGTACGGGGAA			284
QY 1244	ggcattcttcaaaattggaagactcagcccgaagtgtgcgcggtctgtggggcatccgcgaagaac			1303
Db 285	TTTCGTATCTCAA-----GACCCTGTAGTGGGTGGCCCGGCTCTGGGGCGCTTGGCAAGTGC			338
QY 1304	cgctccgcgcataacttgcagaacagtttgagcgctcatctccgcagtlctacaagaagagc			1363
Db 339	AAAGCCCAAGATAAATTACACAACAGCTGAGCCGGGCGCTGCGTATTACTATTAACAAGCGCC			398
QY 1364	atccatccggaagcc	1377		
Db 399	ATTCTGCACAGAC	412		

```

1      RESULT 76
2      US-08-875-944B-1
3      Sequence 1, Application US/08875944B
4      Patent No. 6096542
5      GENERAL INFORMATION:
6      APPLICANT: FUJINAGA, Kei
7      APPLICANT: YOSHIDA, Koichi
8      APPLICANT: HIGASHINO, Fumihito
9      TITLE OF INVENTION: CANCER CONTROL
10     NUMBER OF SEQUENCES: 5
11     CORRESPONDENCE ADDRESS:
12     ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
13     STREET: 624 Ninth Street N.W., Ste. 300
14     CITY: Washington
15     STATE: D.C.
16     COUNTRY: USA
17     ZIP: 20001
18     COMPUTER READABLE FORM:
19     MEDIUM TYPE: Floppy disk
20     COMPUTER: IBM PC compatible
21     OPERATING SYSTEM: PC-DOS/MS-DOS
22     SOFTWARE: PatentIn Release #1.0, Version #1.30
23     CURRENT APPLICATION DATA:
24     APPLICATION NUMBER: US/08/875,944B
25     FILING DATE: 07-AUG-1997
26     CLASSIFICATION: 514
27     PRIOR APPLICATION DATA:
28     APPLICATION NUMBER: JP 07-020173
29     FILING DATE: 08-FEB-1995
30     PRIOR APPLICATION DATA:
31     APPLICATION NUMBER: PCT/JP96/00016
32     FILING DATE: 09-JAN-1996
33     ATTORNEY/AGENT INFORMATION:
34     NAME: BROWDY, Roger L.
35     REGISTRATION NUMBER: 25,618
36     REFERENCE/DOCKET NUMBER: FUJINAGA-1
37     TELECOMMUNICATION INFORMATION:
38     TELEPHONE: (202) 628-5197
39     TELEFAX: (202) 737-5528
40     INFORMATION FOR SEQ ID NO: 1:
41     SEQUENCE CHARACTERISTICS:
42     LENGTH: 2064 base pairs
43     TYPE: nucleic acid
44     STRANDEDNESS: single
45     TOPOLOGY: linear
46     MOLECULE TYPE: cDNA
47     FEATURE:

```



```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Weiser & Associates
STREET: 230 South Fifteenth Street
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: AEDIT 1.0 DOS text editor
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/343.443B
FILING DATE: 18-NOV-1994
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/FR93/00494
FILING DATE: 19-MAY-1993
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: FR 92/06123
FILING DATE: 20-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 989.6121P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2938 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 143..1498
US-08-343-443B-3

Query Match          3.7%; Score 71; DB 2; Length 2938;
Best Local Similarity 62.0%; Pred. No. 1.1e-06;
Matches 132; Conservative 0; Mismatches 75; Indels 6; Gaps 1;

QY 1156 gccatccacacctgagcagctcctcaaggagtgctactcaagccccaagctatgccc 1215
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 979 gcagatccagctgtggcgaattctcctggagcgtctccgacagcgccaaagccagctg 1038
QY 1216 ctctcattaggtgctcaacaaggagagggcatctcaaatgagactcagccagct 1275
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1039 tatcaccctggagggagggcgaacggcgag-----ttcaaaatgacggaccgccgacgt 1092
QY 1276 gggccggcgtggtggagctcgcaagaacgctccggcccatgaaactggaagaactgagccg 1335
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1093 ggccagcgcctggggcagcggcaaaagcaagcccaatgaaattgacgaacactgagccg 1152
QY 1336 ctccatcgcgcagctcttaacaagaaggcactat 1368
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1153 ggccctccggttatgattgataaaacattat 1185

RESULT 10
US-08-780-835B-1
; Sequence 1, Application US/08780835B
; Patent No. 5932688
; GENERAL INFORMATION:
; APPLICANT: Hung, Mien-Chie
; APPLICANT: Xing, Xiangming
; TITLE OF INVENTION: PEA3 is a Tumor Suppressor
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE AND DURKEE
```

```

STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/780.835B
FILING DATE: 10-JAN-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Wilson, Mark B.
REGISTRATION NUMBER: 37,259
REFERENCE/DOCKET NUMBER: 07SC500
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-3000
TELEFAX: (512) 474-7577
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2410 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-780-835B-1
```

```

Query Match          3.7%; Score 70.2; DB 2; Length 2410;
Best Local Similarity 59.2%; Pred. No. 1.6e-06;
Matches 158; Conservative 0; Mismatches 103; Indels 6; Gaps 2;

QY 1109 gagagagctgtagccgaagagagtgtagctcaccatcagctcggcgccatccactg 1168
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1308 gaaggattggagctttccggaggggccacccttaccagcccggtgcttacaactg 1367
QY 1169 tggcagctccctcaaggagtgctactcaagccccaagctatggtcgctcattagtg 1228
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1368 tggcagcttct--gctggccctgctgagatgacccaaatgctcatgttcattgcttgc 1424
QY 1229 ctcaacaaggaggaagggcatctcaaatgagactcagccagtggtgcccgtgtg 1288
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1425 acagcccgccggcaatgc--acgtttaaactaatgtaacctgaagcaggttgcagcgtcgcg 1481
QY 1289 ggcactccgaagaacccgtccgcacatgaactgcgaagaagctgagcgcgtcatcgcag 1348
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1482 ggtatccgaagaaacggccagccatgattatgacaaagctgagccgctgctgcgattac 1541
QY 1349 tcttaagaagggcatcatccggaag 1375
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1542 tatatatgaaaggaatcatgcacagac 1568

RESULT 11
US-09-303-268-1
; Sequence 1, Application US/09303268
; Patent No. 6172212
; GENERAL INFORMATION:
; APPLICANT: Hung, Mien-Chie
; APPLICANT: Xing, Xiangming
; TITLE OF INVENTION: PEA3 is a Tumor Suppressor
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE AND DURKEE
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
```



```
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/303,268
FILING DATE: 30-Apr-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/780,835
FILING DATE: 10-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Wilson, Mark B.
REGISTRATION NUMBER: 37,259
REFERENCE/DOCKET NUMBER: UTSC500
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-3000
TELEFAX: (512) 474-7577
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2410 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-303-268-1
```

```
Query Match          3.7%; Score 70.2; DB 4; Length 2410;
Best Local Similarity 59.2%; Pred. No. 1.6e-06;
Matches 158; Conservative 0; Mismatches 103; Indels 6; Gaps 2;
```

```
QY 1109 gaggaagactgacgcagacgaggtgactcatcgtctccggcagcccatccactg 1168
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1308 GAAGGATTGGAGCTTCCGGGAGGCCACCCCTACGAGCGCGGTGCTTACAACTG 1367
QY 1169 tggcagttctcaagaagttgactcaagcccccagctatggccgcttaagttg 1228
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1368 TGGCACTTCTCT--GGTGGCCCTGCTGAGTGACCCACAAAGCTCATTTATGCTTGG 1424
QY 1229 ctcaacaaggaagagcagctctcaaaaattgagactcagcccgagtgcccgctgtg 1288
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1425 ACAGCGCGGGGAATG--AGTTTAACTAATTGAACTGAAGAGGTGCGAGGCTCTGG 1481
QY 1289 ggcattccgaagaacgctccgcctcagctgcagcaagctcgagcgctcatccgcaag 1348
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1482 GGTATCCAGAGAACGGCGGACATGATATGCAAGCTGAGCGCTCGCTCGATAC 1541
QY 1349 tcttaacaagaaggcatcatccggaag 1375
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1542 TATTATGAGAAAGCATCATGCAAGAAG 1568

RESULT 12
US-09-116-049-1
; Sequence 1, Application US/09116049A
; Patent No. 6248351
; GENERAL INFORMATION:
; APPLICANT: Hung, Men-Chie
; TITLE OF INVENTION: HUMAN PEA3 IS A TUMOR SUPPRESSOR FOR CANCER CELLS
; FILE REFERENCE: UTSC:582
; CURRENT APPLICATION NUMBER: US/09/116,049A
; FILING DATE: 1998-07-15
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2410
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-116-049-1
```

```
Query Match          3.7%; Score 70.2; DB 4; Length 2410;
Best Local Similarity 59.2%; Pred. No. 1.6e-06;
```

```
Matches 158; Conservative 0; Mismatches 103; Indels 6; Gaps 2;
QY 1109 gaggaagactgacgcagacgaggtgactcatcgtctccggcagcccatccactg 1168
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1308 GAAGGATTGGAGCTTCCGGGAGGCCACCCCTACGAGCGCGGTGCTTACAACTG 1367
QY 1169 tggcagttctcaagaagttgactcaagcccccagctatggccgcttaagttg 1228
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1368 TGGCACTTCTCT--GGTGGCCCTGCTGAGTGACCCACAAAGCTCATTTATGCTTGG 1424
QY 1229 ctcaacaaggaagagcagctctcaaaaattgagactcagcccgagtgcccgctgtg 1288
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1425 ACAGCGCGGGGAATG--AGTTTAACTAATTGAACTGAAGAGGTGCGAGGCTCTGG 1481
QY 1289 ggcattccgaagaacgctccgcctcagctgcagcaagctcgagcgctcatccgcaag 1348
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1482 GGTATCCAGAGAACGGCGGACATGATATGCAAGCTGAGCGCTCGCTCGATAC 1541
QY 1349 tcttaacaagaaggcatcatccggaag 1375
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1542 TATTATGAGAAAGCATCATGCAAGAAG 1568
```

```
RESULT 13
US-09-360-779-1
; Sequence 1, Application US/09360779
; Patent No. 6268216
; GENERAL INFORMATION:
; APPLICANT: Deneris, Bryan S.
; APPLICANT: Pyodero, Dmitry V.
; APPLICANT: Hendricks, Timothy J.
; TITLE OF INVENTION: Reagents and Methods for the Screening of Compounds
; FILE REFERENCE: Case-03828
; CURRENT APPLICATION NUMBER: US/09/360,779
; FILING DATE: 1999-07-26
; EARLIER APPLICATION NUMBER: 60/094,264
; EARLIER FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1752
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (112)..(1131)
US-09-360-779-1
```

```
Query Match          3.4%; Score 64.8; DB 4; Length 1752;
Best Local Similarity 53.1%; Pred. No. 2.1e-05;
Matches 186; Conservative 0; Mismatches 137; Indels 7; Gaps 2;
QY 1156 gccacccacactgtgacggttctcaagaagttgactcaagcccccagctatggcg 1215
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 555 gcagatccagctgtgcaagttctactgagctgtgcaagcgcgcaagcgcgctg 614
QY 1216 ctctaatgagttgctcaacaaggaagagcattctcaaaattgagactcagcccggt 1275
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 615 catcgctgggagggc-----ggccacgycgagttcaagctcaccccgacgaggt 668
QY 1276 ggcgcgctgtggtgcatccgcaagaacgctccgcctcagctgagctgcaagctgagcg 1335
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 669 ggcgcgagctgtggcgagcgcaagagcaccataatgactcagcaagctgagctg 728
QY 1336 ctccatccgcccagttctcaagaagagcattatccggaagccagacatctcccgct 1395
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 729 agcaactgcgtactactacgacaaaacatcatcagcagagtgcaagcgctacgc 788
QY 1396 cgtctacagttgtgcaaccccatctgagctgtgctgcccgaagcgctgaaccgcctca 1455
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 789 ctaccgcttgccttccagggcctgcaacaggttcgacgacacacacccgcgacgcaca 848
```



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

# OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 18:16:11 ; Search time 3492.95 Seconds  
(without alignments)  
11347.102 Million cell updates/sec

Title: US-09-841-963A-1  
Perfect score: 1894  
Sequence: 1 gctgactctctccagcac.....ataagatactaggaactg 1894

Scoring table:  
IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08  
Maximum Match 1008

Listing first 45 summaries

Database :  
1: gb\_ba:\*  
2: gb\_hcy:\*  
3: gb\_in:\*  
4: gb\_om:\*  
5: gb\_ov:\*  
6: gb\_pat:\*  
7: gb\_ph:\*  
8: gb\_pl:\*  
9: gb\_pr:\*  
10: gb\_ro:\*  
11: gb\_sts:\*  
12: gb\_sy:\*  
13: gb\_un:\*  
14: gb\_vl:\*  
15: em\_ba:\*  
16: em\_fun:\*  
17: em\_hum:\*  
18: em\_in:\*  
19: em\_mu:\*  
20: em\_om:\*  
21: em\_or:\*  
22: em\_ov:\*  
23: em\_pal:\*  
24: em\_ph:\*  
25: em\_pl:\*  
26: em\_ro:\*  
27: em\_sts:\*  
28: em\_un:\*  
29: em\_vl:\*  
30: em\_hcy\_hum:\*  
31: em\_hcy\_inv:\*  
32: em\_hcy\_other:\*  
33: em\_hcy\_inv:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
------------	-------	-------------	--------	-------	-------------

1	1870	98.7	1894	6	AX048148	AX048148 Sequence
2	1870	98.7	1894	9	AF071538	AF071538 Homo sapi
3	1868.4	98.6	1918	6	AX175516	AX175516 Sequence
4	1865.2	98.5	3317	6	AX048159	AX048159 Sequence
5	1864.4	98.4	1942	9	BC021299	BC021299 Homo sapi
6	1811.8	95.7	1898	9	AB031549	AB031549 Homo sapi
7	757	40.0	1856	10	BC012648	BC012648 Mus muscu
8	738.4	39.0	1704	10	AB019436	AB019436 Mus muscu
9	643	33.9	150660	6	AL157372	AL157372 Human DNA
10	329.8	17.4	1751	6	AX048155	AX048155 Sequence
11	263	13.9	278	6	AX106617	AX106617 Sequence
12	263	13.9	278	6	AX140908	AX140908 Sequence
13	263	13.9	278	6	AX200768	AX200768 Sequence
14	263	13.9	278	6	AX267424	AX267424 Sequence
15	156.6	8.3	105772	2	AC095858	AC095858 Rattus no
16	151.2	8.0	105772	2	AC095858	AC095858 Rattus no
17	147.6	7.8	362	3	DRODTS4A	M88474 Drosophila
18	147.6	7.8	38178	2	AC015374	AC015374 Drosophila
19	147.6	7.8	180887	3	AC008253	AC008253 Drosophila
20	147.6	7.8	188549	3	AC007818	AC007818 Drosophila
21	147.6	7.8	193245	3	AC008217	AC008217 Drosophila
22	147.6	7.8	230940	3	AE003762	AE003762 Drosophila
23	144.4	7.6	1832	3	AF106964	AF106964 Strongylo
24	96	5.1	5315	3	DROE74B	M37083 Drosophila
25	96	5.1	6479	3	DROE74A	M37082 Drosophila
26	96	5.1	51405	2	AC019512	AC019512 Drosophila
27	96	5.1	174643	3	AC009371	AC009371 Drosophila
28	94.4	5.0	4800	3	DM74E	X15087 Drosophila
29	87.2	4.6	148462	2	AC095263	AC095263 Rattus no
30	83.2	4.4	2266	6	AR073028	AR073028 Sequence
31	83.2	4.4	2266	9	HOMEK1A	M25269 Homo sapien
32	83.2	4.4	2695	9	AB016193	AB016193 Homo sapi
33	81.6	4.3	848	5	AF075706	AF075706 Gallus ga
34	81.4	4.3	125020	9	AF429315	AF429315 Homo sapi
35	81.2	4.3	742	9	AF000672	AF000672 Homo sapi
36	80.8	4.3	1436	5	DRE249590	AJ249590 Danio rer
37	80.4	4.2	660	10	MMELK1P	Z36339 M.musculus
38	80.4	4.2	2286	6	AX305989	AX305989 Sequence
39	80.4	4.2	2286	10	MMELK1GEN	X87257 M.musculus
40	79.6	4.2	2508	5	AF075708	AF075708 Gallus ga
41	79.2	4.2	4200	5	DRU84615	U84615 Danio rerio
42	78.8	4.2	742	9	HSN339670	AJ339670 Homo sapi
43	78.8	4.2	1403	9	HSDNAFEV3	Y08979 H.sapiens f
44	78.8	4.2	1901	9	HSNNAFEV	Y08976 H.sapiens m
45	78.8	4.2	169741	9	AC097468	AC097468 Homo sapi

## ALIGNMENTS

RESULT	1	AX048148	1894 bp	DNA	linear	PAT 15-DEC-2000
LOCUS	AX048148	Sequence 1 from Patent WO0070092.				
DEFINITION	AX048148					
ACCESSION	AX048148					
VERSION	AX048148.1	GI:11876967				
KEYWORDS						
SOURCE						
ORGANISM		human.				
		Homo sapiens				
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
		Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
REFERENCE		1 (bases 1 to 1894)				
AUTHORS		Kaufmann, J. and Xin, H.				
TITLE		Expression of ets-domain proteins in cancer				
JOURNAL		Patent: WO 0070092-A 1 23-NOV-2000;				
FEATURES		Chiron Corporation (US)				
source		Location/Qualifiers				
		1..1894				
		/organism="Homo sapiens"				
		/db_xref="taxon:9606"				
		416..1423				
		/note="Human JKETS."				
		/codon_start=1				

```

/protein_id="CAC19002.1"
/db_xref="GI:11876968"
/translation="MGASPCLSISVSPSHLLLPDPTVSRITGELKAAGAVGLERDMST
PSPATPEOGSAFYLYSVFMFLYEDSSMAKAGASSREEPPEPEOCPIYDSOAPAP
GSLIDPGGLTLEEHSLLEQVMSVYGVKIDITACKLINTADPMDSPTNOYKXWILL
WTEQYRLPMPGKAFQELAGKELCAMSEEDPQRSPLIGDYVLAHLHDIVKSAAMKEER
TSPSAIHCATSEESWTFDESDSSGSPQIHMOWFLKELLKHSYGRFTIWNKKEE
GIFLEDSAQVAARLMGIRKRNPNANNYDKLSIRIQYKKGIIRRPDISQRLVQFVHH
I"
BASE COUNT      368 a      653 c      571 g      302 t
ORIGIN

```

Query Match	98.7%	Score 1870:	DB 6:	Length 1894:
Best Local Similarity	99.2%	Pred. No. 0:	Mismatches 15:	Indels 0:
Matches 1879:	Conservative	0:	Mismatches 15:	Indels 0:
Qy 1 gctctactccctccacacatctctctgacatctgcgtgacacatgcccacagacc	60			
Db 1 gctctactctccctccacacatctctctgacatctgcgtgacacatgcccacagacc	60			
Qy 61 agtccctcaagcctctctgacagctccctgcaagccctcaagcttggctctgcaagtg	120			
Db 61 agtccctcaagcctctctgacagctccctgcaagccctcaagcttggctctgcaagtg	120			
Qy 121 ccagcagcagcagccctgggagctgggtaaggagatccctcaagcagcagccctagacc	180			
Db 121 ccagcagcagcagccctgggagctgggtaaggagatccctcaagcagcagccctagacc	180			
Qy 181 gcaacacagcgaaccccttgaaggctggcagagccccaatggtgccaacctgaagtgcctct	240			
Db 181 gcaacacagcgaaccccttgaaggctggcagagccccaatggtgccaacctgaagtgcctct	240			
Qy 241 gcaacacagcgaaccccttgaaggctggcagagccccaatggtgccaacctgaagtgcctct	300			
Db 241 gcaacacagcgaaccccttgaaggctggcagagccccaatggtgccaacctgaagtgcctct	300			
Qy 301 caagtggcctcaagctgcccacacacctctcccgagccctggaggttggcaatgacagcagacag	360			
Db 301 caagtggcctcaagctgcccacacacctctcccgagccctggaggttggcaatgacagcagacag	360			
Qy 361 cctcccttgggacacagcagctaacagacacagccgacagcccaaacagcagcgtgcatgg	420			
Db 361 cctcccttgggacacagcagctaacagacacagccgacagcccaaacagcagcgtgcatgg	420			
Qy 421 cagcgcagcccgaggctctgaagcagctatcccacagcaacctctgctgccccccagac	480			
Db 421 cagcgcagcccgaggctctgaagcagctatcccacagcaacctctgctgccccccagac	480			
Qy 481 ggtgtcgcgcagacagcttggagaaagccgacacggggcagctgggcttcgaagacggga	540			
Db 481 ggtgtcgcgcagacagcttggagaaagccgacacggggcagctgggcttcgaagacggga	540			
Qy 541 cgggagctcccaatccaccccgaccccgagagagagcctgtccgccttgaactctccta	600			
Db 541 cgggagctcccaatccaccccgaccccgagagagagcctgtccgccttgaactctccta	600			
Qy 601 ctttgaacatgctgtaacccctgaagagacagccttggcagcagcagcccttgggcaagcag	660			
Db 601 ctttgaacatgctgtaacccctgaagagacagccttggcagcagcagcccttgggcaagcag	660			
Qy 661 tctgggaggggccaactgacacacctgagagatgcccgtgcatctgaagcagaagcccccagc	720			
Db 661 tctgggaggggccaactgacacacctgagagatgcccgtgcatctgaagcagaagcccccagc	720			
Qy 721 gggcagccctggagcttggcagcggcgagctgacaccttgggagagcactgctgaagcagt	780			
Db 721 gggcagccctggagcttggcagcggcgagctgacaccttgggagagcactgctgaagcagt	780			
Qy 781 gcaatccatgctgtgtggcgaagtgtctcaagaagacatcgagacgacctgcaagctgctcaa	840			
Db 781 gcaatccatgctgtgtggcgaagtgtctcaagaagacatcgagacgacctgcaagctgctcaa	840			

QY	841	caaacgcgaatoccatgagcttggagccccaagaatgticagaagtgtgctctgtggac	900
Db	841	CATCACCGCAATGCCAATGAGACTGGAAGCCGACGAATGTGAGAGTGGCTCTGTGAC	900
QY	901	agagacccaataacggctctgcccccatlvggcaaggtcttccagagcttgcgycgaaga	960
Db	901	AGAGACCAAAATACGGCGTGGCCCCCATGAGGAGCGCTTCCAGAGACTGTGGCGGAAGCA	960
QY	961	gctgtgcgcatagttcgagagagcaagttccgcgaagctcgccccctgggtggagatgtct	1020
Db	961	GCTGTGCCCCATGTGTGGAGGAGCAAGTTCCGCGACAGCTGTGCCCCCTGGGTGGGATGTGCT	1020
QY	1021	gcaagcccaacttggacatcttgaagtcagcggtctgtgataagaagagagacttcaacttg	1080
Db	1021	GCAGCCCACTGTGACATCTGGAAAGTCAAGCGGCTTGATATAAAGAGGACATTACCTGG	1080
QY	1081	ggcgaatcaactagtgtgcctcgacaagtgaagagagcttgacacgacagagtgtgactc	1140
Db	1081	GGCGAATCACTACTGTGCTGTGACACAGTGAAGAGAGCTGGACCCAGAGCTGAGCTC	1140
QY	1141	atcatgtcccgaggagcccatlcaacctgtggcaattctctcaagaagtgtgtactcaagcc	1200
Db	1141	ATCATGTCTCCGGAGACGCCATTCACCTGTGGAGTTCCTCAAGAGTGTGCTACTCAAGCC	1200
QY	1201	ccacagactatggccgtctcatatgattgtgtctcaacaagagagagagcactctcaaatlta	1260
Db	1201	CCACAGATATGGCGGCTTCATTAGTGTGCTCAACAGAGAGAAAGGACATTTCAAAATTGA	1260
QY	1261	ggactcgaagcccaagtgtgcgcggctctgttggagatccgcgaagaacggtccgcataagctg	1320
Db	1261	GGACTCAACCCAGAGTGGCGCGGCTGTGGGAGATCCGCAAGAACGTCCTCCGCAAGAACTA	1320
QY	1321	cgacaagcttgagccgtctcatctcgcgcacgtctctacaagaagagacatctcgcgaagcaga	1380
Db	1321	CGACAAGCTGAGCCGCTCATCTCCGCAATTTACAAGAAGGCAATCATCCGGAAAGCAGA	1380
QY	1381	catctccgaagcgtctcgctctaacagttctgtgcacccaatctgagtgccttggccccagggc	1440
Db	1381	CATCTCCAGCGCCTCGTCTACCAAGTTGTGCACCCCATCTGAATGCTGTGGCCAGGCGCC	1440
QY	1441	tgaaacccggccttgaagggtctctctctgtctctgctccgtccgtccgaagcccttgagaatg	1500
Db	1441	TGAAAACCGGCTTCAAGGGGCGCTCTCTCTGCTGCTGCCTCAGCCAGCCAGGCGCTGACATG	1500
QY	1501	ggggaaaacgggcagtgctgcctgtctgtctgcaccttccagaagcccaaggtccagggaggg	1560
Db	1501	GGGGAAAACGGGCATGTGCTGTGCTGTGCTGACCTTCAAGGCCAAAGTCAAGGAGGG	1560
QY	1561	gcaaccaactgcgccaggggggatatgggtctctcttggggctctggagacatltgggacagg	1620
Db	1561	GCAACCAACTGCCCCAGGGGGGATTAAGGGTCTCTTGGGGCTTTCGGAGACATGGGGCAAGG	1620
QY	1621	gtgcttccctcccaagcccaagctgtctcccctggagagaaagagggagacaaaggtctgctccc	1680
Db	1621	GTGCTTCCCTCCACAGGCCACAGTGTCTCCCTTGGAGAGACAGAGGAGACAGAGGCTGTCTCC	1680
QY	1681	caaacacttgcctctgacccccagcalttccagaagagagcttacagaagggagatgtactcg	1740
Db	1681	CAAACACTGTGCTCTGACCCCAAGCATTTCCAGAGCAGAGACCTTACGAAGAGGCAAGTACTCG	1740
QY	1741	aaaagaagcacaaggaagtccagagctctctctgtctccatctcccctgtctcccatcttcga	1800
Db	1741	AAAAAGGCCACAGGAGTCCAGGCTCTCTGTGCTTCATTCCTCTGCTCTCCATTTCTGCA	1800
QY	1801	ccacacacttgagatgtgcagggagagacatctgaccccccaagtlttggcagcccaagatgtcc	1860
Db	1801	CCACACACTGTGATGTGTGACGGGAGAGACATCTGACOCCTTGAGTTGGGACGCCAGAGATGCC	1860
QY	1861	cccgaggaaatgataataagatactagagaactg	1894
Db	1861	CCCGGGAATGATATAAGATACTAGAGAACTG	1894

[illegible]

QY	241	gcaacagaccctgctgagccctggtctccgctgagcccccagatgacctggtgtagacagc	300
Db	241	gccacacagccctgcctgagcccccctgggttccgcctggcccccacgaatgcttgctatgacacgc	300
QY	301	cagtgagccttaagtgcacacacctctcccgccctggagatgttgacatgacgacgaag	360
Db	301	cagtgagccttaagctgccacacaccttcccgccctggagatgttgacatgacgacgaag	360
QY	361	ctccctggagccacagagcaatlaacagacagaccgacagcccaaaagacgagctgag	420
Db	361	ctccctggagccacagcagcaatlaacagacagaccgacagcccaaaagacgagctgag	420
QY	421	caagggcaagccggggtctgagagagatctcccgagacactctctctccccgagac	480
Db	421	caagggcaagccggggtctgagagagatctcccgagacactctctctccccgagac	480
QY	481	ggttcgcggaacagagcttbgaaagagcgagcgaggagctgagctctgaaagacgga	540
Db	481	ggttcgcggaacagagcttbgaaagagcgagcgaggagctgagctctgaaagacgga	540
QY	541	ctggagttcccaagtccaaccgccaagcccgagagagcctgtccgctctgacctctcta	600
Db	541	ctggagttcccaagtccaaccgccaagcccgagagagcctgtccgctctgacctctcta	600
QY	601	cttggaatgctgttaaccttgagaacagagcttggagccaagagccctggggccaagag	660
Db	601	cttggaatgctgttaaccttgagaacagagagcttggagccaagagccctggggccaagag	660
QY	661	tcggagagagcaaccctgacagacctgagcagtgccggtcatatgacagccaagcccaagc	720
Db	661	tcggagagagcaaccctgacagacctgagcagtgccggtcatatgacagccaagcccaagc	720
QY	721	gggagaccctgagatgtgtgcccggggcgagctgaaccttggagagacatgctgagacaagt	780
Db	721	gggagaccctgagatgtgtgcccggggcgagctgaaccttggagagacatgctgagacaagt	780
QY	781	gcaatccatggtgtggcggaagtctcmaagacatgaaacagcctgcamaactgctctca	840
Db	781	gcaatccatggtgtggcggaagtctcmaagacatgaaacagcctgcamaactgctctca	840
QY	841	catacacgagatcccaatgagatctgagcccccaagaatgtgcataaaltgctctcttgag	900
Db	841	catacacgagatcccaatgagatctgagcccccaagaatgtgcataaaltgctctcttgag	900
QY	901	agagacacaaatlaacggctgcccccaatggagcaagcctctccaaagagctggcggaaga	960
Db	901	agagacacaaatlaacggctgcccccaatggagcaagcctctccaaagagctggcggaaga	960
QY	961	gctgtgagcaatgtcgagagagagcttcgcgcagagctcgcccctggtgtggagatgct	1020
Db	961	gctgtgagcaatgtcgagagagagagcttcgcgcagagagctcgcccctggtgtggagatgct	1020
QY	1021	gcaagccacactggaatcttgaaatgaagcgagcttgaaatgaagacggacttcaacctgg	1080
Db	1021	gcaagccacactggaatcttgaaatgaagcgagagcttgaaatgaagacggacttcaacctgg	1080
QY	1081	ggcgatctactgtgctcgaccagtgagagagcttgagccgacagcgagtgagctc	1140
Db	1081	ggcgatctactgtgctcgaccagtgagagagcttgagccgacagcgagtgagctc	1140
QY	1141	ataatgctcggagagacacacacacttgacactgtgacattctctaagagatgtctactaagc	1200
Db	1141	ataatgctcggagagagacacacacacttgacacactgtgagagttctctaagagatgtctactaagc	1200
QY	1201	ccaagatlaagcgagcttcaatgaatgtgctaaacaaagagaaagagcattctcaaatlga	1260
Db	1201	ccaagatlaagcgagccttcaatgaatgtgctaaacaaagagaaagagcattctcaaatlga	1260
QY	1261	ggacttcagcccaagtgagccgagcttgaggagatccgaaagaaacggtcccgcatgaactg	1320
Db	1261	ggacttcagcccaagtgagccgagcttgaggagatccgaaagaaacggtcccgcatgaactg	1320
QY	1321	cgaaacgctgagcggtccatccgcgaagctcttaacaaagagagacatcccggaagccaga	1380

Db	1321	CGACAGGTGAGCCGCTCATCCGCCAGTATTATCAAGAAGGGCATCATCCGAAGCCAGA	1380
Oy	1381	cattctccagagccttcgttctaccagttcgttgcacccacttcgagtgccttgccccagggcc	1440
Db	1381	CATCTCCAGGCGCTCGTCACAGTTGCTGCACCCTCAGTAGAGTCTTGACCCAGGGGCC	1440
Oy	1441	tgaacccggcctcaagggtcctctctcgtcgccctgcgtctcagccagagccctagaatg	1500
Db	1441	TGAAMCCGCCCTCAGGGGCTCTCTCTGCTGCTGCCTGACCTCAGCCAGGCCCTTGAGATNG	1500
Oy	1501	ggggaaacaggagcagtgctgcctgcgtgccttcgaaccttcagagcccagaatgaaggagg	1560
Db	1501	GGGGAAAACGGGCGAGTCTGCTGCTGCTGACTTTCAGAGGCCAAGGTCAGGGAGGG	1560
Oy	1561	gcaaaccaatcccccaaggaggatatggctcctctggggcccttcggagaccatggggcagaag	1620
Db	1561	GCAACCAATCCCCCAGGGGGATNTGGATCCCTG9GGGCTTCGGGACATG6GGCGAGGG	1620
Oy	1621	gtgtctctcctccaagcccaagctgtccctctggaggagacaaggagacagggtctgcc	1680
Db	1621	GTGCTCTCTCTCAAGGCCCTGACTGCTGCCCTTGAGAGACAAGGGGAGACAGGGCTCTGCC	1680
Oy	1681	caaacctgcctctcgaccaccaatcttcagaagcagagccttacagaaggcagtgactcg	1740
Db	1681	CAMCACCTGCTCTGACACCCCAAGCATTTCCAAGCAGAACCTTACAATAAGGGCAGTGACTCG	1740
Oy	1741	acaaggcacaagcagcagcagcctctctctctgcatacccccctgcctcccatctgca	1800
Db	1741	ACMAAGGCACAGGAGAGTCCAGGCCCTCTCTGCTGCATCCCTCGCTCCATTTCTGCA	1800
Oy	1801	ccaacccctgcagtgtcagaggagaaacatctcacccctcaagttggagccagagatgcc	1860
Db	1801	CCACACCTGGCATGTGTGACGAGGAGCAATCTCACCCCTGAGAGTTGGCAGCCAGGAGTGCC	1860
Oy	1861	cccgaggaaatgataataagaatactagaggactg	1894
Db	1861	CCCCGGAAATGGATTAATAAGATACTAGAGAACTG	1894
RESULT_3			
AX175516		1918 bp	DNA linear PAT 03-JUL-2001
LOCUS	AX175516		
DEFINITION	Sequence 1 from Patent WO0142472.		
ACCESSION	AX175516		
VERSION	AX175516.1	GI:14598855	
KEYWORDS	.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.		
TITLE	1 (bases 1 to 1918)		
JOURNAL	Harkins,R., Lin,R.U., Luke,M., Monteciarlo,F., Parkes,D., Parry,G., Steindbrecher,R., van Heulte,P.T. and Xuan,J.A. Dna encoding a novel pro-teins polypeptide Patent: WO 0142472-A 1 14-JUN-2001; SCHERING AKTENGESELLSCHAFT (DE) location/qualifiers		
FEATURES			
Source	1..1918		
	/organism="Homo saplens"		
	/db_xref="taxon:9606"		
	422..1429		
	/note="unnamed protein product"		
	/codon_start=1		
	/protein_id="CA043877.1"		
	/db_xref="GI:14598856"		
	/translation="MGSAIPGLSVSPSHLLPPDVVSRTGLEKAAAGAVLERDWS		
	PSPAPIDPQGISAFVLSYFDMLYPEDSSWAKAPGASSREPPPEEQCPVIDSQAPR		
	PSDLVPGLTLLEHSLEOVSNMVGVEIKDIETACKLINTAPADMDSPNVOKML		
	WTSEHOYRLPMGRKAFOELACKELCAMSEPDROSPJGGVDLAHLADITWKAAWMKEK		
	TSFAIHVCASTSFESMTDSFVSDSGGPPIHLMOPFLKEILLKHPSGRFIRMLNKEK		
	GTFRIEDSAOVARILMGIRKNRPAMNYDKLSITQYTKKKGIIRRPDISQRLYQFVHH		
	I"		

BASE	COUNT	385	a	656	c	574	g	303	t
ORIGIN									
Query Match		98.6%;		Score 1868.4;		DB 6;		Length 1918;	
Best Local Similarity		99.2%;		Pred. No. 0;					
Matches 1878;		Conservative		0;		Mismatches		16;	
						Indels		0;	
						Gaps			
OY	1	gtcgaacttcctccagacacattccctgcacactctgcgcgtgtctccacatgcccacagacc	60						
Db	7	gttcgaacttctctccagacacattctctgcacactctgcgcgtgtccacacactccccacagacc	66						
OY	61	agctctccaaagcctgtcgtcgaagctccctcgcgaagcccctcgaagtttggtgaccttgcaagtg	120						
Db	67	AGTCTCTCAAGCGCTGCTGCGACAGCTCCCTCTCAAGCCCTCAGAGTTTGCGCTTGCCACGGTG	126						
OY	121	ccagcaagcagccgacctggtgctggtgtgtaagtgatctcctcctaaagacagcagccctggaacc	180						
Db	127	CCACAGAGGCAgaccttggtgctggtgtgtaagtgatctcctcctaaagacagcagccctggaacc	186						
OY	181	gcacccacagcaccaccttgtagagtgctgcgaagcccaccagtgccgaacacctgagctgcacct	240						
Db	187	TCaAGGGGCCACCCCTTGAGGGGTGGGGTAAGGGAGCTCCTTAAGAGCAAGCAgCCCTGAAGCC	246						
OY	241	gcacacagcccctgtcgtgcccttgctgcgtgtgcgtgtgccccagatgctcgtctgagaacgc	300						
Db	247	GCcACACAGCCCTGCTGGCCCTCTGTTGCCCTGTGCCCTCCCAAGATGCTGTGGTAGACAGC	306						
OY	301	cagtgagctcaagctgtgcccaacactctccgcgagccccttgtagtcttgacatgcagacagac	360						
Db	307	CAGTGGCCTCAGAGTGCcCCACACCTCTTCCCGGCCCTGAAGTTGGACATGCAGCAGACAG	366						
OY	361	ctcccctggcacaagcagactaaacagacacagccgcagcccacaaacagcagcgtgcatatgg	420						
Db	367	CTTCCCTGGGCAcCAGGAGAGCTTAACAACACAGCCGCAACCCCAAAcACACAGCGCATGGG	426						
OY	421	cagagcagagcccgggtcttgtagcagcgtatcccccaacacactcctgcctgcgcccccgagac	480						
Db	427	CAGGCCAGCCCGGGTGTGAGCAAGCTATCCCCAGCCACCTCTGCTGTGCCCCCGAGAC	486						
OY	481	ggtgtcgcgcgaacagccttgtagaagcgcgcgcagcgcgcgtgtgtgtctcgcagagacgga	540						
Db	487	GGTGTGCGGAGCAGGCTTGTGAGAAAGCGGAGCGGGGGCAGTGGGTCTCAGAGACAGGGA	546						
OY	541	ctgtagatcccaagtccaacccgcacgcgcgcgcgcgcgcgtctgcgccttcgcgaactctcta	600						
Db	547	CTGAGATCCCAAGTCCACCCCGCCACGCCCAAGCGGGCTGTCTCGCGCTTTCACCTTCTCTA	606						
OY	601	cttgacaatgtctacaccttgtagacagacagcctbgtgcagcagaagcccctggtggccagac	660						
Db	607	CTTTGACATGCTGTATACCTCTTAGGACAGCAAGCTGTGGCAGCCAAAGGCCCTGTGGGCCAG	666						
OY	661	tcggaggagagcacacttgaaccagcctgaagctgtgccggtcatctgacagcgaagcccacgc	720						
Db	667	TCGGAGAGAGCCACTTGAAGAGCGCTGAGCAgTCCCGGATTTGACAGCAAGCCCCACGC	726						
OY	721	gggcaaccttgtaacttgctgcgcgcgcgcgcgcgcacacttgtagaggaactcgcctggaagcgt	780						
Db	727	GGCGAGCCTGACATTTGGTGGCCCGCGGGCGCTGACCTTGGAGAGACACTCGCTGGAGACAGT	786						
OY	781	gcacatccaatgtgtgtggtgcgaagtgtctcaagaacatctagacagcgcctgcgaagctgtctaa	840						
Db	787	GCAGTCATGGTGTGGGCGCAAGTGTCTCAAGGACATCGAGAGCGGCTGCAAGCTGTCTCAA	846						
OY	841	catcaacgcagatcccaatgtaactgtgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc	900						
Db	847	CATCAcCGCAATCCCAATGAGACTGTAGACCCCAACCAATGTGCAGAAATGGCTCTCTGTGAC	906						
OY	901	agagacccaataacacggctgtgcccccatctggtgcgaagcctctccagagacctbgtgcgcgaagga	960						
Db	907	AGAGACCAATATACGGGTGTGGCCCCCAATGGGCAAGGCGCTTCAAGAGCTGTGGCGCAAGGA	966						
OY	961	gctgtgtgcacatgtcgaaggaagcagttcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc	1020						

Db	967	GCTGTGCCCACTGTGGAGGAGCACTTCCGCCAGCGCTCGCCCTTGCGTGGGGAATGTCT	1026
Qy	1021	gcaagcccaactgtagcatctggaagtcagcgactgtagtgaagaagcgacttcaactg	1080
Db	1027	GCACGCCCAACCGTGCACACTGTGAACTCAGCGCCCTGTGATGAAGAGCGACTTCACTGG	1086
Qy	1081	ggcgattactactgctgactgacagrgaggaagcgctggaccggaacagaggtgactc	1140
Db	1087	GGCGATTACTACTGTGTGCTGTGACCAAGTAGAGAGAGTGGACCGACAGAGAGTGTACTC	1146
Qy	1141	atcatgctccggygcagaccatcacactctgycagttctccaaagggctgtactcaagcc	1200
Db	1147	ATCATGTCTCCGGGAGGCCCATTCACCTGTGGGAGTTCCTCAAGAGATTGTCTCTCAAGCC	1206
Qy	1201	ccacagctatgycgcttcaatagtgagctcaaaagaagaaggacatcttcaaaattga	1260
Db	1207	CCACAGCATATGCGCCCTTCATATAGGTGGCTCAACAGAGAGAAAGGACATCTCAAAATTGA	1266
Qy	1261	ggaactcagcccgagtgagcccgagctgttgaggatctccgaagaacgctccgcgaatgactg	1320
Db	1267	GGACTCAGCCCAAGTGTGGCCCGGCTGTGGGCAATCCGCANAGAACGCTCCCGCATATACTA	1326
Qy	1321	cgacaagctgtagcgctccatccatccgcgaagttctataagaagaaggcatcatccggaaagccaga	1380
Db	1327	CGACAAGCTGAGACCCGCTCATTCGCGCAGATTTACAAAGAGGGCATTCATCCGGAACCGAGA	1386
Qy	1381	catctcccaagcgctctcgcttaacaaatctgtagaccatctgagtgtcctgagcccaaggcc	1440
Db	1387	CATCTCCCAAGCGCTCTGCTTACCAATGTTGTGACCCCACTGTAGTGCCGTGGGCCAGGGCC	1446
Qy	1441	tgaaaccccgccctcaggggagctctctctcctgctgcctgcctcagccagcgccctgagatg	1500
Db	1447	TGAAACCGCGCCTTCAAGGGGCTCTCTCCGCTGCGCTGCGCTGACCGAGGCCCTAGATNG	1506
Qy	1501	ggggaaaaagggcgagttgtctctgtctgtctcgtacacttcaagagcccaagtgtaaggaggg	1560
Db	1507	GGGGAAAAACGGGCACTGTGCTGCTGTGCTGTGACCTTCCAGAGCCCAAGAGTCAAGGAGAGG	1566
Qy	1561	gcaacacaactgcccccaaggaggatagtggtctcctctgagcgcttcggagacatgaggaag	1620
Db	1567	GCAACCAACTGCGCCCAAGGGGAGTATGTGGTCTCTGTGGGGCTTCCGGGACCCCTGGGCAAGG	1626
Qy	1621	gtgtctctctctcagggcccaagctgtctccctgtaggaacaagaggaagcgagtgctccc	1680
Db	1627	GTGTCTCTCTCTCAAGGCCCAAGCTGTCTCCCTGTGAAGAGAGAGGAGACAGGCTCTCTCC	1686
Qy	1681	caaaacctgacctctaacccccagcatttccaaagagagagccttaaaaaggagagtgactgc	1740
Db	1687	CACACCTGCTCTCTACCCCCAGCATTTTCCAGAGCAAGAGCTTACAAAGAGGCAGTACTCG	1746
Qy	1741	acaaagggcacagggaggtccaaagcctctctctcgtcatalcccccctgcctcccatctgca	1800
Db	1747	ACAAAGGCCACAGGAGGATCCAGGCGCTGTCTGTGCTGTGCTCAATCCCCGTCCCATTTCTGGA	1806
Qy	1801	ccaaacccgtgcatgtgtgcaaggagacatctgtgaacccctcaagtttggcgagccagagagtgc	1860
Db	1807	CCAACCTGTGGCTGTGTGCAAGGAGACATCTGTGACCCCTGATGTTGGCAAGCCAGGAGTGGC	1866
Qy	1861	cccggaatggtataataagatactcagaagctg	1894
Db	1867	CCCCGGGAATGGATTATTAAGATACTAGAGAACTG	1900
RESULT 4			
LOCUS	AX048159	3317 bp	DNA
DEFINITION	Sequence 12 from Patent WO0070092.	linear	PAT 15-DEC-2000
ACCESSION	AX048159		
VERSION	AX048159.1	GI:11876975	
KEYWORDS	human.		
SOURCE	human.		
ORGANISM	Homo sapiens		

REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheraia; Primates; Catarrhini; Homnidae; Homo.
TITLE	Kaufmann,J. and Xin,H.
JOURNAL	Expression of ets-domain proteins in cancer Patent: WO 0070092-A 12-23-NOV-2000; Chiron Corporation (US)
FEATURES	Location/Qualifiers
Source	1..3317
promoter	/organism="Homo sapiens" /db_xref="taxon:9606"
CDS	/note="GSEF-encoding sequence with promoter (Figs. 2A-2B)" 1..1380 /note="Promoter" 1815..2822 /note="GSEF coding sequence" /codon_start=1 /protein_id="CACI19004.1" /db_xref="GI:11876976" /translation="MGSAIPGLSSVPSSHLLPPDIYVRNGLEKAAGAVLERDPS PSPAPATPEOGISAFYLSTFDMLTPEDSSWMAKAKASREPPPEACPVTSQAPRA GSGLDVPGGLTLEHSLEQVSVMVVGELKIQETACKLINTAAPMDMSPNVQKWLL WTQEYRPLPMKGAKFOELAGEKLAMSEDFORSPSLGGVDLNLHIDWSAAWKBR TSPAIIHYCACTSEESWTDSEVSDSCSGOPIHLMOFLKEILLKPHSYGRFTRLNKERK GIFIEDSAQVARLMGIRKNRPANMNYDKLSRIQYKKGIIRKPDISIQRLYQVFVHP I"
BASE COUNT	710 a 1026 c 970 g 611 t
ORIGIN	
Query Match	98.5%; Score 1865.2; DB 6; Length 3317;
Best Local Similarity	99.0%; Pred. No. 0;
Matches 1876; Conservative	0; Mismatches 18; Indels 0; Gaps 0;
Oy	1 gtctgacttctctccagacatctctgtcaacttcgcgtygtccaacttgcccacaagacc 60
Db	1400 gcttgacctcctccccagacattctctggacctgctgctgcgcacactgccccacagacc 1459
Oy	61 agtctccaagcctctgcacagtcccttcgaagcccccaagtttagtgaccttcacagggtg 120
Db	1460 agtctccaaagcctctctgcacagctcctcgtagaacgccctcagtttgaccttcacagggtg 1519
Oy	121 ccagcagcagcccttggagcttggggtaagggaattccctaagcagaagccctgagacc 180
Db	1520 ccagcagcagcagcccttggagcttggggtaagggaattcccttacagcagcagccctgagacc 1579
Oy	181 gccaccagaaccaacctttagaggttggccagagcccccaagttggccaacctttagtctcctt 240
Db	1580 tcacagagggccacacctttagaggttggccagagcccccaagttggccaacctttagtctcctt 1639
Oy	241 gccaccagaaccttgccttgcgccttgcgcttgcgcttgcgcccccaagattgcctttagaacaagc 300
Db	1640 gccaccagaaccttgccttgcgccttgcgcttgcgcttgcgcccccaagattgcctttagaacaagc 1699
Oy	301 caatgagctcaagctgtgccacaaccttttcccgagcccttgaggttggcatgtcagaagcaag 360
Db	1700 cagtgagctcaagctgtgccacaaccttttcccgagcccttgaggttggcatgtcagaagcaag 1759
Oy	361 ctcccttggcaacagcagctatacagaacaacagccgcaagccccaaaacagcagcgagatggg 420
Db	1760 ctcccttggcaacagcagctatacagaacaacagccgcaagccccaaaacagcagcgagatggg 1819
Oy	421 caagcgcaagcccggtcttgagcagcgtatcccccagaaccaactctgtctgcccccgcaaac 480
Db	1820 cagcccgcaagcccggtcttgagcagcgtatcccccagaaccaactctgtctgcccccgcaaac 1879
Oy	481 ggtgctcgagcaagccttggagaagcgagcagcgaggggagagtggtgtctcgaagagacggga 540
Db	1880 ggtgctcgagcaagccttggagaagcgagcagcgaggggagagtggtgtctcgaagagacggga 1939
Oy	541 ctgagagctccagltcacaccgccaagcccgagcagagcctgtctcgacttcgaactcttcta 600
Db	1940 ctgagagctccagltcacaccgccaagcccgagcagagcctgtctcgacttcgaactcttcta 1999

OY	601	ctgacatgctcttacccttgaagacagagctctggagcaagagccctctgggcaagag	660
Db	2000	CTTGACATGCTGCTGACCTGTAGACACAGCAAGCTGGCAGCGCAAGGCCCTCTGGGGCAGCAG	2059
OY	661	tcgaggagagccaccttgaaccagccttgagagatgcccgttcatltgaacgccaagcccagc	720
Db	2060	TCCGGAGAGACCCACCTGTAGAGAGCCTTAGCAGTAGTCCCGGTATTTGACACCAAGCCCCAGC	2119
OY	721	gggagacccttgagacttggctgcggcgaggtctgaaccttggagagagactgcgtggagaccagt	780
Db	2120	GGGAGACCTTGAGACTTGGTGTGCCCCGGGGGCTGACCTTGGAGGAGCACTGCTGGAGCAAGT	2179
OY	781	gagcttccatgtgtgttggcggaagtgtctcaaggacatcggagacgagccttgaagcttgtctaa	840
Db	2180	GACATCCATGGTGGTGGGAGAGTGTCTCAAGGACATCGAGACGAGGCTGTGCAAGCTGTCTCA	2239
OY	841	catcaaccgagatctccatgtaactctggagccccagcaatgtctgaagaagtgtctctgtgtac	900
Db	2240	CATCACCGCAGAGATCCCATGTGACGTGGAGCCCCACAGCAATGTGCGAAGTGTGCTCTGTGTGAC	2299
OY	901	agagaccaaataccggagtctgcgccccaatggcaagagccttcgaagagctctggcgcgaaaga	960
Db	2300	AGAGCACCAGTACCGGCTGTGCCCCCATTTGGGCAAGGCTTCCAGAGAGCTTGGCGGGCAAGA	2359
OY	961	gcgtgtgcgcaatgtctggaagagagcttccgcgaagcgtctgcacctgggttgggagatgtct	1020
Db	2360	GCTGTGGCGCATGTCTGGAGGAGAGAGTGTCCGCGACGCTCTGCCCTCTGGGTGGAGATGTGCT	2419
OY	1021	gcaagcccaacttgagacatctggaaagtcgaagcgccgtgtgatatgaagaagcgagcttaacctg	1080
Db	2420	GCAGGCCACCTGTGAGCACTGTGGAAAGTACGGGGCTGTGGATGAAGAAGCGGACTTCACTCGG	2479
OY	1081	ggcgattcaactactgtgctctcgaccagatgaaagagacttgaaccgaacagcgaggttgatctc	1140
Db	2480	GGCGATTCACTACTGTGCTCTCGACAGATGAGAGAGACTGTGACCAGACGAGAGGTGAGACTC	2539
OY	1141	atcatgtctccggggagagcccatccaactgtggcagttccctcaagagagttgtctactaagcc	1200
Db	2540	ATCATGTCTCCGGGAGAGCCCATTCACCTGTGGCATGTCTCTCAAGAGATTGTACTATCAACC	2599
OY	1201	ccaagactatgacgaccttcatatgagtctgtccaagaagagagagagcatcttcaaatgtga	1260
Db	2600	CCACAGCATGTGGCGCTTCAATTAGTGTGGCTCAACAAGAGAGAGGCGATCTTCAAAATATGA	2659
OY	1261	ggactcagcccaggttggcccgctgttggggacatccgcaagaacgltccgcgcatagaactg	1320
Db	2660	GGACTCAGCCCCAGGTGGCCCGCTGTGGGGCATCCCGCAAGAACCTCTCCGGCATTAACCTA	2719
OY	1321	ggaagaactgaagcgcgtctcatcgcgaagctcttaagaagaaggacatcatccgsgaaacgaga	1380
Db	2720	CGACAGCTGAGCCGCTTCATCCGCCAGATTTTCAAGAAAGGCGATCATCCGGAACCCAGA	2779
OY	1381	catctccagagcctctgtctaccaggtctgtgaccccccatctagatgtccttggcccagggcc	1440
Db	2780	CATCTCCAGAGCCTCTGCTTACCAAGTTGCGAGCACCCCATCTGAGTGGCTTGGGCCAGGGCC	2839
OY	1441	tgaaacccggccttaaggagcctctctctcgtcctgcctcctcagaccagggccctagaatg	1500
Db	2840	TGAAAACCGGCCCTTACGGGGGCTCTCTCTCTGCGCCCTTCCCTCACACAGGCCCTGTGAATG	2899
OY	1501	ggggaaaaacggagatgtgtctctgcgtctctaaccttcagagagccaaagtctaaaggagag	1560
Db	2900	GGGGAAAAACGGGAGTGTGCTCTGTGCTCTTGAACCTTCCAGAGCCCAAGATCAGGGAAGG	2959
OY	1561	gcaacccaacttgcgccagggggataatggtctctcttgggccccttcggagacatatggggcaggg	1620
Db	2960	GCAACCAACTGCCCCAGGGGGATATGAGTGTCTCTTGGGGCCTTCCGGAGACCTTGGGGCAGGG	3019
OY	1621	gtgtctctctctcaaggcccaagctgtctccctctggagagaaagagagagacaagggctgtactcc	1680
Db	3020	GTGTCTCTCTCTCAAGGCCACAGCTGTCTCTCTGTGAGGACAGAGAGGACAGGGCTGTCTCC	3079

Qy	1681	caacacgctctbaccacccagcattccacagacagacccacagaagcagcagctcg	1740
Qy <td>1681</td> <td>caacacgctctbaccacccagcattccacagacagacccacagaagcagcagctcg</td> <td>1740</td>	1681	caacacgctctbaccacccagcattccacagacagacccacagaagcagcagctcg	1740
Db <td>3080</td> <td>CAACACCTGCTCTbACCcCAGCATTTTCCAAGCAGAGcCTACAGAGGcAGTgACTCG</td> <td>3139</td>	3080	CAACACCTGCTCTbACCcCAGCATTTTCCAAGCAGAGcCTACAGAGGcAGTgACTCG	3139
Qy <td>1741</td> <td>acaaagcgcacacagcagctccacagcctctctctgtccatctcccccgtcctcccatctgca</td> <td>1800</td>	1741	acaaagcgcacacagcagctccacagcctctctctgtccatctcccccgtcctcccatctgca	1800
Db <td>3140</td> <td>ACAAAGGCcACAGGcAGTCCAGGcCTCTCTGTGCTCCATCCcCTGcCTCCCATTTCTCA</td> <td>3199</td>	3140	ACAAAGGCcACAGGcAGTCCAGGcCTCTCTGTGCTCCATCCcCTGcCTCCCATTTCTCA	3199
Qy <td>1801</td> <td>ccacaccttgcatgtgtcagagagagacatctgcacccctcagtttgggcagccagagtgcc</td> <td>1860</td>	1801	ccacaccttgcatgtgtcagagagagacatctgcacccctcagtttgggcagccagagtgcc	1860
Db <td>3200</td> <td>CCACACCTTGcATGTGTGcAGGAGGAGCACTCTCACCCCTGAGTTGGcGACcAGGAGTgCC</td> <td>3259</td>	3200	CCACACCTTGcATGTGTGcAGGAGGAGCACTCTCACCCCTGAGTTGGcGACcAGGAGTgCC	3259
Qy <td>1861</td> <td>cccggaatgtgataataagaatacagagaactg</td> <td>1894</td>	1861	cccggaatgtgataataagaatacagagaactg	1894
Db <td>3260</td> <td>CCCGGAGTGTGATANTAGATACTAGAGAACTG</td> <td>3293</td>	3260	CCCGGAGTGTGATANTAGATACTAGAGAACTG	3293

RESULT	5
LOCUS	BC021299
DEFINITION	BC021299 1942 bp mRNA linear PRI 22-JAN-2002
ACCESSION	Homo sapiens, prostate epithelium-specific Ets transcription factor, clone MGC:29592 IMAGE:4546860, mRNA, complete cds.
VERSION	BC021299
KEYWORDS	BC021299.1 GI:18204265
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
AUTHORS	1 (bases 1 to 1942)
TITLE	Strausberg, R.
JOURNAL	Direct Submission Submitted (14-JAN-2002) National Institutes of Health, Mammalian Gene Collection (MGC) Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
REMARK	NIH-MGC Project URI: http://mgc.nci.nih.gov
COMMENT	Contact: MGC help desk Email: cgapbs.rem@nih.gov Tissue Procurement: ATCC CDNA Library Preparation: Rubin Laboratory DNA Sequencing by: The I.M.A.G.E. Consortium (ULNL) Sequencing Center (NISC), Gaithersburg, Maryland; Web site: http://www.nisc.nih.gov/ nisc.mgc@nih.gov Contact: Shevchenko, Y., Wetherby, K.D., Beckstrom-Sternberg, S.M., Benjamin, B., Blakesley, R.W., Bouffard, G.G., Brinkley, C., Brooks, S., Dietrich, N.L., Guan, X., Gupta, J., Ho, S.-L., Krillins, F., Legaspi, R., Lim, M., Maduro, O.L., Mastello, C., Mastrian, S.D., McCloskey, J.C., McConwell, J., Pearson, R., Snyder, B., Stentrop, S., Thomas, P.J., Tlonsang, E.E., Touchman, J.W., Tsurgou, C., Vogt, D.L., Walker, M.A., Zhang, L.-H. and Green, E.D.  Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ULNL at: http://image.llnl.gov Series: IRAL Plate: 39 Row: d Column: 22 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 6912579. Location/Qualifiers 1..1942 /organism="Homo sapiens" /db_xref="LocustID:25803" /db_xref="taxon:9606" /clone="MGC:29592 IMAGE:4546860" /tissue_type="Colon, adenocarcinoma" /clone_id="NIH_MGC_15" /lab_host="DH10B-R" /note="Vector: pOTB7" 421..1428 /codon_start=1 /product="prostate epithelium-specific Ets transcription
CDS	





RESULT 6  
AB031549 1898 bp mRNA linear PRI 20-JAN-2000  
LOCUS Homo sapiens PSE mRNA for prostate ets, complete cds.  
DEFINITION AB031549  
ACCESSION AB031549  
VERSION AB031549.1 GI:6721497  
KEYWORDS prostate ets.  
SOURCE Homo sapiens adult male prostate epithelium prostate cancer  
cell\_line:PC-3 CDNA to mRNA.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (sites)  
AUTHORS Yamada,N., Tamai,Y., Miyamoto,H. and Nozaki,M.  
TITLE Cloning and expression of the mouse Pse gene encoding a novel Ets  
family member  
JOURNAL Gene 241 (2), 267-274 (2000)  
MEDLINE 2037504  
REFERENCE 2 (bases 1 to 1898)  
AUTHORS Nozaki,M.  
TITLE Direct Submission  
JOURNAL Submitted (25-AUG-1999) Masami Nozaki, Osaka University, Institute  
for Microbial Diseases: 3-1, Yamadaoka, Suita, Osaka 565-0871,  
Japan (E-mail:mnnozaki@iken.osaka-u.ac.jp, Tel:81-6-879-8338,  
Fax:81-6-879-8339)  
FEATURES  
source  
1. .1898  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/chromosome="6"  
/map="6p21.2-21.3"  
/sex="male"  
/cell\_line="PC-3"  
/cell\_type="prostate cancer"  
/tissue\_type="prostate epithelium"  
/dev\_stage="adult"  
/note="vector:pUC18"  
406. .1413  
/gene="PSE"  
406. .1413  
/codon\_start=1  
/product="prostate ets"  
/protein\_id="BA089543.1"  
/db\_xref="GI:6721498"  
/translation="MGSASPGLSVSPSHLLPDTVSRTGLEKAAAGVLERDMS  
PSPATPEQGLSAFLSYFDMLYPEDSNAAKAPGASSEEPPEQCPVDSQAP  
GSLDLYPGGLTEHSLEQVQSMVGEVKDIETAKSLINTADPMDPSNVOKIL  
KPEHOYRLPMPKARFQELAKELCAASEQFROSLGSDVLAHLIDTKSANMKER  
TSPGAIHYCASTSESWTDSVDSSGQPIHMDPLKELIKPHSYGRTIMLNK  
GIPIKIDSQAVARLWGIWIRKNRPAMNYDKLSIRQYKGIIRKPIDISORLYOVHP  
I"

BASE COUNT 380 a 651 c 567 g 300 t  
ORIGIN  
Query Match 95.7%; Score 1811.8; DB 9; Length 1898;  
Best Local Similarity 98.9%; Pred. No.1.6e-293;  
Matches 1866; Conservative 0; Mismatches 17; Indels 4; Gaps 4;

QY 8 ttctctccagacattctctgacatctgctgctgctccacacacgccccacgctctc 67  
DB 1 TTCTCTCCAGACATTCCTGACCTGCGCTGTGCACACATGCCCCACAGACCAATCTC 60  
QY 68 caagcctgctgacagctccctgcaagcctcaaggttggtgcttgcaaggtgcaagcaag 127  
DB 61 CAAAGCTGCTGCCAGCTCCTCGCAAGCCCTCAAGTTGGGCTTGGCCACCGGTGCAAG 120  
QY 128 gcaagccttggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 187  
DB 121 GCAAGCCTTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGG 180

QY 188 gccaccccttgagggtgagcaggcccccaagtgagccaaactgaagtgcctctgcacca 247  
DB 181 GCCACCCCTTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGG 239  
QY 248 gccctgctgagccttggtgctgctgctgctgctgctgctgctgctgctgctgctgct 307  
DB 240 GCCCTGCT-GCCCCGTGTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 297  
QY 308 ctcaagctgcccacactctctccggtcccttgaggttggtgctgcaagcagcagctctc 367  
DB 298 CTCAGCTGCCACACACTCTTCCCGGCCCTTGAATGGGACTGCAGACAGCTGCCCTG 357  
QY 368 ggcacacagcagctcaacagacacagccgcagcccaacaacagcagcagcagcagc 427  
DB 358 GGCACACGACACTTAACACACACACCCGACCCCAAAACAGCAGCGGCTGAGCGCC 417  
QY 428 agcccggtgctgagcagcgtatcccccagccacccctctgctgctgctgctgctgctg 487  
DB 418 AGCCCGGCTGTAGACAGCTATCCCCAGCACCTCTCTGCTGCTGCTGCTGCTGCTG 477  
QY 488 cggacagccttgaggagagcagcagcagcagcagcagcagcagcagcagcagcagc 547  
DB 478 CGGACAGCTTGAGAGAGCGGCGGAGCGGCGGAGGCTGCTGCTGCTGCTGCTGCTG 537  
QY 548 cccagtcacccgcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 607  
DB 538 CCCAGTCCACCCGCGCACGCGCCAGCAGGCGCTGTCCGCTTCTACCTCTCTCTCT 597  
QY 608 atgctgtacccctgaggagcagcagcagcagcagcagcagcagcagcagcagcagc 667  
DB 598 ATGCTGTACCTTGAGAGAGCAGCTGCGGAGCGGAGCGGCTGCTGCTGCTGCTGCT 657  
QY 668 gaggcaccctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 727  
DB 658 GAGCCACCTGAGAGAGCGCTGAGAGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTG 717  
QY 728 ctgagccttgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 787  
DB 718 CTGAGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 777  
QY 788 atgctgtggtgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 847  
DB 778 ATGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 837  
QY 848 gcaagatcccaatgagcagcagcagcagcagcagcagcagcagcagcagcagcagc 907  
DB 838 GCAATCCCATGAGCTGAGCGCCCGCAGCAATGTGCAAGAGTGGCTCTGTCGACAG 897  
QY 908 caataccgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 967  
DB 898 CAATACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 957  
QY 968 gcaatgctgagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1027  
DB 958 GCCATGTGCGAAGAGAGTTCGCCAGCGCTGCGCTGCGGTGGGAGTGTCTGACGCC 1017  
QY 1028 caactgagacatctggaagtcagcagcagcagcagcagcagcagcagcagcagcag 1087  
DB 1018 CACCTGAGACATCTGGAAGTCAGCGCGCTGAGTGAAGACCGGACTTCACCTGGCG 1077  
QY 1088 cactactgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 1147  
DB 1078 CACTACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1137  
QY 1148 tcgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1207  
DB 1138 TCGGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 1197  
QY 1208 tatgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1267  
DB 1198 TATGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 1257  
QY 1268 gccacagtggtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 1327







Oy	1304	cgctccgcacatgacatcgacacaaagctgagccgtccatccgcagctcttcacaagaagggc	1363
Db	123679	CGTCCGCCCATGAACTACGACAAAGCTGAGCCGCTTCATCCGCCAGATTATCAAGAAGGGC	123620
Oy	1364	atcaatccggaagccagacatctccagcgctcgtctacagttctgtcaacccatctga	1423
Db	123619	ATCATTCGGGAGGACAAACATCTCCAGGCGCTCGTCTACAGTTCCGTGCGACCCCACTCTGA	123560
Oy	1424	gtgcctgagccagaggcgctaaaccgcgcctcaaggagcctctctctcgtcgtccctctgccc	1483
Db	123559	GTGCGCTGGCCCAAGGCGCTGAACCCGCCCTCAGGGGCGCTCTCTCTGCTGCGCCCTGCGTTC	123500
Oy	1484	agccagagccctgagatgtaggggaaacaggagctgtgtctctgctctctgaccttcagag	1543
Db	123499	AGCCAGGCGCCCTTGAGTGGGGGAAAAAGGAGCAAGTGTGCTCTGCTCCATTCGACTTTCACAGAG	123440
Oy	1544	cccgaagctcagggagaggaggaacacaatcgcaccagggagataatgtgtctctctgaggcttc	1603
Db	123439	CCCAAGGTCAAGGAGGAGGGGACCAACATCGCCACAGGGGGAATTATGGGTCTCTGGGGCGCTTC	123380
Oy	1604	ggagcaatggggcagagggtgtctctcctccatcagagccagctgtctccctctgaggaacagag	1663
Db	123379	GGGAGCCTTGGGGGAGGGGGTGTCTCTCTCCAGGCGCCCAAGCTCTCTCCCTGGAGAGCAGAGG	123320
Oy	1664	gagacagagggtgtctcccaacaacctgacctctgaaacccagactcttcagagcagaagctac	1723
Db	123319	GAGACAGGCGTGTGCTCCCAACACGTGCGCTGTGACCCCGACATTTCCAGACGACAAAGCGCTAC	123260
Oy	1724	agaaaggcagtgtaactcgacaaagaagcccaagcagtgctcaagcgctctctctgtctcatccccc	1783
Db	123259	AGAAAGGCAATGACTCGAATAAAGGCGACAGGACAGTCCAGGCGCTTCTCTCTCCATATCCCC	123200
Oy	1784	ctgcctctcccaatctctgcacacacacccctgagcatgtgtgagggagacatctgcacacccctcaagt	1843
Db	123199	CTGCGCTCCCATCTGTGCACCAACACTGGCATGGTGAGGAGACATGTGCACCCCTGAGTT	123140
Oy	1844	gggagagccagagtgccccgggaatgatatataaagatactagaagacg	1894
Db	123139	GGGAGCGCAAGCATGCGCCCGGGAATGGATTAATTAAGTTACTATCAAGAACTG	123089

AX048155	RESULT 10			
LOCUS	AX048155	1751 bp	DNA	linear
DEFINITION	Sequence 8 from Patent WO0070092.			PAT 15-DEC-2000
ACCESSION	AX048155			
VERSION	AX048155.1	GI:11876971		
KEYWORDS				
SOURCE	human.			
ORGANISM	Homo sapiens			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
REFERENCE	1 (bases 1 to 1751)			
AUTHORS	Kaufmann,J. and Xin,H.			
TITLE	Expression of ets-domain proteins in cancer			
JOURNAL	Patent: WO 0070092-A 8 23-NOV-2000;			
	Chiron Corporation (US)			
FEATURES	Location/Qualifiers			
source	1..1751			
	/organism="Homo sapiens"			
	/db_xref="taxon:9606"			
promoter	1..1381			
	/note="JKEYS promoter"			
TATA_signal	1356..1360			
	/note="TATA box."			
BASE COUNT	369 a 521 c 497 g 364 t			
ORIGIN				
Query Match	17.4%;	Score 329.8;	DB 6;	Length 1751;
Best Local Similarity	97.7%;	Fred. NO. 9.8e-46;		
Matches 345; Conservative	0;	Mismatches 7;	Indels 1;	Gaps 1;

Oy	1	gttgattctctccacagacattccctggaactcgtgcgtgtccaaacgcccacagacc	60
Db	1400	gttcgattctctccacagacattccctggaactcgtgcgtgtccaaacgcccacagacc	1459
Oy	61	agtcctcacaagctctgcacagctccctgcaagccctcaagtttgagctctgcacagttg	120
Db	1460	agtccttcacaaagcctggtggcagctccctgcacaaagccctcaagtttgagctctgcacagttg	1519
Oy	121	ccagcagcagcagcccttggtgctgtaggaggtacctcctacagcagcagcccttgagac	180
Db	1520	ccacagcagcagcccttggtgctgtaggaggtacctcctacagcagcagcccttgagac	1579
Oy	181	gccacccagccaccccttgagggtgacagggcccccagtgagcaaccctgagttgtgcctct	240
Db	1580	tcacagagggccaccccttgagggtgagggggccacagcccccacg- gccaaacctgagctgctgcctct	1638
Oy	241	gccacccagccctgctgagcccttgatttcgcttgagccccacagatcctcgtgctgagacagc	300
Db	1639	gccacccagccctgctgagcccttgatttcgcttgagccccacagatcctcgtgctgagacagc	1698
Oy	301	caatgagcctaagatgcacacaaactcttcacggcccccttgagttgagccttcag	353
Db	1699	caatgagcctaagatgcacacaaactcttcacggcccccttcataatttgacactgcag	1751

RESULT	11				
AXI06617	AXI06617	278 bp	DNA	linear	PAT 30-APR-2001
LOCUS	Sequence	398 from Patent WO0125272.			
DEFINITION	AXI06617				
ACCESSION	AXI06617				
VERSION	AXI06617.1	GI:13922282			
KEYWORDS	.				
SOURCE	human.				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
TITLE	1 (bases 1 to 278)				
JOURNAL	Xu,J., Skeiky,Y.A., Reed,S.G. and Cheever,M.A. Compositions and methods for therapy and diagnosis of prostate cancer				
FEATURES	Patent: WO 0125272-A 398 12-APR-2001; CORIXA CORPORATION (US) Location/Qualifiers				
source	1..278				
misc.feature	/organism="Homo sapiens" /db_xref="taxon:9606"				
BASE COUNT	56 a 85 c 87 g 49 t				1 others
ORIGIN					
Query Match	13.9%; Score 263; DB 6; Length 278;				
Best Local Similarity	99.6%; Pred.No. 2.2e-34;				
Matches 263; Conservative	0; Mismatches 1; Indels 0; Gaps 0;				
Gy	agacggttcgcgcagcgctccgcccttggtggatgatgtctcacgcccaccttgaacattc	1040			
Db	AGCAGTTCGCCGACGGCGCTGCACCCTGGTGGAATGTCTCCACGCCCACCTGSACATTCT	74			
Gy	agaagttaaggcgcttgtatgaagaagcgactcaaccctggggcgcatcactactgtgcct	1100			
Db	GGAAGTCAGCGGCGCTTGATTAAGAAGCCGACTTCACCTGGGGCATTTCACTACTGTGCCT	134			
Gy	cgaacagttgaggaagcttgcacgcacaagcgaagltgnaactcatactgtcctggcgaacca	1160			
Db	CACACAGTAGGAGAGACTGGACCGCACAGGAGAGTGGACTCATCTGCTCCGGGAGGCCA	194			
Gy	tccaacctgtgcagcttccctcaaaggagttgtctaactaaagccccacaagctatggccgttaa	1220			
Db	TCACACCTGTGGCAGTTCTCCAAGGAAATTCACATCAAGCCCCACAAGCTATGGCCGCTCA	254			

QY 1221 ttagtgctcaacaagaagaagg 1244  
|||||  
Db 255 TTANGTGGCTCAACAGAGAGAGG 278

RESULT 12  
AX140908 AX140908 278 bp DNA linear PAT 31-MAY-2001  
DEFINITION Sequence 398 from Patent WO0134802.  
ACCESSION AX140908  
VERSION AX140908.1 GI:14281005  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 278)  
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,  
Reed,S.G., Kalos,M.D., Retter,M.W., Stolk,J.A., Day,C.H.,  
Skelky,Y.A. and Wang,A.  
TITLE Compositions and methods for the therapy and diagnosis of prostate  
cancer  
JOURNAL Patent: WO 0134802-A 398 17-MAY-2001;  
CORIXA CORPORATION (US)  
FEATURES Location/Qualifiers  
SOURCE 1. 278  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"

BASE COUNT 56 a 85 c 87 g 49 t 1 others  
ORIGIN

Query Match 13.9%; Score 263; DB 6; Length 278;  
Best Local Similarity 99.6%; Pred. No. 2.2e-34;  
Matches 263; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 981 agcaagttccgacgagctcgccctgggtggtgagtgctgacgagccacactgacatct 1040  
|||||  
Db 15 AGCAATTCCGCGACGCGCTCGCCCTCGGTGGGATGTGCTGACGCGCCACCTGACATCT 74

QY 1041 ggaagtcagcgagctgagtgaaagaagcgagactacactggggcgatcactactgtgct 1100  
|||||  
Db 75 GGAAGTCAGCGCGCTGATGAAAGAGCGGACTCAGCTGGGGCGATTCAGTACTGTGCT 134

QY 1101 cgaccagtgaagagagctgagcgacgacgagagtgagactacatgcttcggggcagccca 1160  
|||||  
Db 135 CGACCAGTGAGAGAGAGCTGAGACCGACGAGGTGACTCATATGCTCCGGGCGAGCCCA 194

QY 1161 tccacctgtgagcttcctcaagaagtgctactcaagcccccacagctatgagcgcttca 1220  
|||||  
Db 195 TCCACCTGTGGCAGTTCCTCAAGAGAGTGTACTCAAGCCCCACAGCTATGCGCGCTTCA 254

QY 1221 ttagtgctcaacaagaagaagg 1244  
|||||  
Db 255 TTANGTGGCTCAACAGAGAGAGG 278

RESULT 13  
AX200768 AX200768 278 bp DNA linear PAT 29-AUG-2001  
DEFINITION Sequence 398 from Patent WO0151633.  
ACCESSION AX200768  
VERSION AX200768.1 GI:15390661  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 278)  
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,  
Reed,S.G., Kalos,M.D., Fanger,G.R., Day,C.H., Retter,M.W.,  
Stolk,J.A., Skelky,Y.A., Wang,A. and Meagher,M.J.  
TITLE Compositions and methods for the therapy and diagnosis of prostate

JOURNAL Patent: WO 0151633-A 398 19-JUL-2001;  
CORIXA CORPORATION (US)  
FEATURES Location/Qualifiers  
SOURCE 1. 278  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"

BASE COUNT 56 a 85 c 87 g 49 t 1 others  
ORIGIN

Query Match 13.9%; Score 263; DB 6; Length 278;  
Best Local Similarity 99.6%; Pred. No. 2.2e-34;  
Matches 263; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 981 agcaagttccgacgagctcgccctgggtggtgagtgctgacgagccacactgacatct 1040  
|||||  
Db 15 AGCAATTCCGCGACGCGCTCGCCCTCGGTGGGATGTGCTGACGCGCCACCTGACATCT 74

QY 1041 ggaagtcagcgagctgagtgaaagaagcgagactacactggggcgatcactactgtgct 1100  
|||||  
Db 75 GGAAGTCAGCGCGCTGATGAAAGAGCGGACTCAGCTGGGGCGATTCAGTACTGTGCT 134

QY 1101 cgaccagtgaagagagctgagcgacgacgagagtgagactacatgcttcggggcagccca 1160  
|||||  
Db 135 CGACCAGTGAGAGAGAGCTGAGACCGACGAGGTGACTCATATGCTCCGGGCGAGCCCA 194

QY 1161 tccacctgtgagcttcctcaagaagtgctactcaagcccccacagctatgagcgcttca 1220  
|||||  
Db 195 TCCACCTGTGGCAGTTCCTCAAGAGAGTGTACTCAAGCCCCACAGCTATGCGCGCTTCA 254

QY 1221 ttagtgctcaacaagaagaagg 1244  
|||||  
Db 255 TTANGTGGCTCAACAGAGAGAGG 278

RESULT 14  
AX267424 AX267424 278 bp DNA linear PAT 26-OCT-2001  
DEFINITION Sequence 398 from Patent WO0173032.  
ACCESSION AX267424  
VERSION AX267424.1 GI:16516188  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (sites)  
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,  
Kalos,M.D., Fanger,G.R., Retter,M.W., Stolk,J.A., Day,C.H.,  
Vedvick,T.S., Carter,D., Li,S.X., Wang,A., Skelky,Y.A., Hepler,W.T.  
and Henderson,R.A.  
TITLE Compositions and methods for the therapy and diagnosis of prostate  
cancer  
JOURNAL Patent: WO 0173032-A 398 04-OCT-2001;  
CORIXA CORPORATION (US)  
FEATURES Location/Qualifiers  
SOURCE 1. 278  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"

BASE COUNT 56 a 85 c 87 g 49 t 1 others  
ORIGIN

Query Match 13.9%; Score 263; DB 6; Length 278;  
Best Local Similarity 99.6%; Pred. No. 2.2e-34;  
Matches 263; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 981 agcaagttccgacgagctcgccctgggtggtgagtgctgacgagccacactgacatct 1040  
|||||  
Db 15 AGCAATTCCGCGACGCGCTCGCCCTCGGTGGGATGTGCTGACGCGCCACCTGACATCT 74

QY 1041 ggaagtcagcgagctgagtgaaagaagcgagactacactggggcgatcactactgtgct 1100



```

Db      75 GGAAGTACACGGCGCTGGATGAAAGACGGACTTTCACCTGCGGCGATTCATCTACTGCTT 134
Qy      1101 CGACCACTGAGGAGAGCTGAGCAGCAGGAGTGGAGTGCATCAGTCTGCGGAGCAGCAGC 1160
Db      135 CGACCACTGAGGAGAGCTGAGCAGCAGGAGTGGAGTGCATCAGTCTGCGGAGCAGCAGC 194
Qy      1161 TCACCTGAGGAGAGTCCCTCAAGGAGTGTCTACTCAAGCAGCAGTATGAGCAGCAGC 1220
Db      195 TCACCTGAGGAGAGTCCCTCAAGGAGTGTCTACTCAAGCAGCAGTATGAGCAGCAGC 254
Qy      1221 TTAGTGTGCTCAACAAGGAGGAGG 1244
Db      255 TTTATGTCGCTCAACAAGGAGGAGG 278

RESULT 15
AC095858 105772 bp DNA linear HTG 20-DEC-2001
LOCUS Rattus norvegicus clone CH230-10E14, *** SEQUENCING IN PROGRESS
DEFINITION *** 40 unordered pieces.
ACCESSION AC095858
VERSION AC095858.3 GI:17943471
KEYWORDS HTG: HTGS_PHASE1.
SOURCE Norway rat.
ORGANISM Rattus norvegicus
          Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
          Rattus.
REFERENCE 1 (bases 1 to 105772)
AUTHORS Muzny,D.M., Adams,C., Adio-Oduola,B., All-Osman,F.R., Allen,C.,
          Alstbrooks,S.L., Amaratunga,H.C., Are,J.R., Banks,T., Barbara,J.,
          Benton,J., Blamee,K., Blankenburg,K., Bonaldi,D., Bouck,J.,
          Bowles,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Bunney,C.,
          Burch,P., Burrell,C., Burrell,K.L., Byrd,N.C., Carron,T.F.,
          Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R.,
          Chen,Z., Chowdhry,I., Christopoulos,C., Cleveland,C.D., Cox,C.,
          Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C.,
          Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O.,
          Denn,A.L., Ding,Y., Dinh,H.H., Douthwaite,K.J., Draper,H.,
          Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C.,
          Elhaj,C., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J.,
          Foster,P., Frantz,P., Gabist,A., Gao,J., Garcia,A., Garner,N.,
          Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S.,
          Hamilton,K., Harris,C., Harris,K., Hart,M., Haylak,P., Hayes,A.,
          Hernandez,J., Hernandez,O., Hodgson,A., Hognes,M., Hollway,C.,
          Hollins,B., Homsli,F., Howard,S., Huber,T., Hulyk,S., Hume,J.,
          Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S.,
          Joudan,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J.,
          Kovar,C., Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C.,
          Lewis,L., Li,J., Li,Z., Lichtarge,O., Lieu,C., Liu,J., Liu,W.,
          Louisedge,H., Lozado,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R.,
          Ma,J., Maheshwari,M., Mapua,P., Martin,R., Martindale,A.,
          Martinez,E., Massey,E., Mayhew,E., McLeod,M.P., Meador,M.,
          Mel,G., Metzger,M., Miner,G., Miner,Z., Mitchell,T., Mohabbat,K.,
          Morgan,M., Morris,S., Moser,W., Neal,D., Newton,J., Newton,N.,
          Nguyen,A., Nguyen,N., Oragunye,N., Oviedo,R., Pace,A., Payton,B.,
          Peery,J., Perez,L., Peters,L., Pickens,R., Primus,E., Pu,L.L.,
          Quiles,M., Ren,Y., Rives,M., Rojas,A., Rojubokan,I., Rolfe,M.,
          Ruiz,S., Savary,G., Scherer,S., Scott,G., Shen,H., Shoshitari,N.,
          Slismon,I., Sodergren,E., Sonalke,T., Sparks,A., Stanley,H.,
          Stone,H., Sutton,A., Svatek,A., Tabot,P., Tamerisa,A., Tamerisa,K.,
          Tang,H., Tansey,J., Taylor,C., Taylor,T., Telford,B., Thomas,N.,
          Thomas,S., Usmani,K., Vasquez,L., Vera,V., Villalon,D., Vinson,R.,
          Wall,R., Wang,S., Ward-Moore,S., Warren,R., Washington,C.,
          Wallington,S., Williams,G., Williamson,A., Wleczky,R., Wooden,S.,
          Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zortilla,S., Nelson,D.,
          Weinstock,G. and Gibbs,R.
          Direct Submission
TITLE
JOURNAL
REFERENCE 2 (bases 1 to 105772)
AUTHORS Morley,K.C.

```

```

TITLE
JOURNAL
COMMENT
Direct Submission
Submitted (17-SEP-2001) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Dec 20, 2001 this sequence version replaced gi:16901667.
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GDQD
Center clone name: CH230-10E14
----- Summary Statistics
Assembly program: Phrap; version 0.990329First call to
findPhrapList
Consensus quality: 84212 bases at least Q40
Consensus quality: 90046 bases at least Q30
Consensus quality: 95305 bases at least Q20
Estimated insert size: 90346; sum-of-contigs estimation
Quality coverage: 0x in Q20 bases; agarose-tp estimation
Quality coverage: 1.1x in Q20 bases; sum-of-contigs estimation
-----
* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draht_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 40 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*
* 1
* 7183 7282: contig of 7182 bp in length
* 7283 12821: contig of 5539 bp in length
* 12822 12921: gap of unknown length
* 12922 17580: contig of 4659 bp in length
* 17581 17680: gap of unknown length
* 17681 21052: contig of 3372 bp in length
* 21053 21152: gap of unknown length
* 21153 24730: contig of 3578 bp in length
* 24731 24830: gap of unknown length
* 24831 26079: contig of 1249 bp in length
* 26079 26179: gap of unknown length
* 26180 30636: contig of 4457 bp in length
* 30637 30736: gap of unknown length
* 30737 34528: contig of 3792 bp in length
* 34529 34628: gap of unknown length
* 34629 37888: contig of 3261 bp in length
* 37889 37989: gap of unknown length
* 37990 41096: contig of 3107 bp in length
* 41097 41196: gap of unknown length
* 41197 44133: contig of 2937 bp in length
* 44134 44233: gap of unknown length
* 44234 47711: contig of 3478 bp in length
* 47712 48111: gap of unknown length
* 48112 49766: contig of 1955 bp in length
* 49767 49866: gap of unknown length
* 49867 53471: contig of 3605 bp in length
* 53472 53571: gap of unknown length
* 53572 55697: contig of 2126 bp in length
* 55698 55797: gap of unknown length
* 55798 58869: contig of 3072 bp in length
* 58870 58969: gap of unknown length
* 58970 62248: contig of 3279 bp in length
* 62249 62348: gap of unknown length
* 62349 65436: contig of 3088 bp in length
* 65437 65537: gap of unknown length
* 65538 67322: contig of 1786 bp in length
* 67323 67422: gap of unknown length
* 67423 69569: contig of 2147 bp in length
* 69570 69669: gap of unknown length

```



```
* 69670 72310: contig of 2641 bp in length
* 72311 72410: gap of unknown length
* 72411 75766: contig of 3356 bp in length
* 75767 75866: gap of unknown length
* 75867 77612: contig of 1746 bp in length
* 77613 77712: gap of unknown length
* 77713 80441: contig of 2729 bp in length
* 80442 80541: gap of unknown length
* 80542 82037: contig of 1496 bp in length
* 82038 82137: gap of unknown length
* 82138 84137: contig of 2000 bp in length
* 84138 84237: gap of unknown length
* 84238 85983: contig of 1746 bp in length
* 85984 86084: gap of unknown length
* 86084 88084: contig of 2001 bp in length
* 88085 88184: gap of unknown length
* 88185 89469: contig of 1285 bp in length
* 89470 89569: gap of unknown length
* 89570 90925: contig of 1356 bp in length
* 90926 91025: gap of unknown length
* 91026 92114: contig of 1089 bp in length
* 92115 92214: gap of unknown length
* 92215 93366: contig of 1152 bp in length
* 93367 93466: gap of unknown length
* 93467 94962: contig of 1496 bp in length
* 94963 95062: gap of unknown length
* 95063 96516: contig of 1454 bp in length
* 96517 96616: gap of unknown length
* 96617 98564: contig of 1948 bp in length
* 98565 98664: gap of unknown length
* 98665 100193: contig of 1529 bp in length
* 100194 100293: gap of unknown length
* 100294 101520: contig of 1227 bp in length
* 101521 101620: gap of unknown length
* 101621 102748: contig of 1128 bp in length
* 102749 102848: gap of unknown length
* 102849 104031: contig of 1183 bp in length
* 104032 104131: gap of unknown length
* 104132 105772: contig of 1641 bp in length.
```

FEATURES  
source 1..105772  
Location/Qualifiers  
/organism="Rattus norvegicus"  
/db\_xref="taxon:10116"  
/clone="CH230-10E14"

BASE COUNT 24796 a 25921 c 26128 g 24930 t 3997 others  
ORIGIN

Query Match 8.3%: Score 156.6; DB 2: Length 105772;  
Best Local Similarity 85.7%: Pred. No. 3.4e-17;  
Matches 174; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

```
QY 847 cgcagatccatgactgagcccaatgtgcagaagtgtctctgtgacagagca 906
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 21223 CCAGAGACCTGGGGACTGGAGCCCTGTACGTCGAGAGTAGTGCTTCTGTGACAGAAC 21282
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 907 ccaatccggctgcccccatgagcaagccttccagagctggtcgcggaagagctgtg 966
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 21283 CCAGTACCGGCTCCAGCGGGCAAGGCTTCCAGGAGCTGGGTGCGCAAGAGCTATG 21342
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 967 cgcagatcgagagagcaatltccgacagcgtcccccgtgggtggatgtgtcagcgc 1026
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 21343 CCGCATGTCCGAGAGACCATTCGCCAGCGGACACCTTGGGGGGGACGTGTCGATGC 21402
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1027 ccacctgacatctggaagtcag 1049
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 21403 TCACCTGACATCTGGAAGTCAG 21425
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

Search completed: August 6, 2002, 19:53:16  
Job time: 5825 sec



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 18:52:21 ; Search time 311.57 Seconds

(without alignments)  
10436.935 Million cell updates/sec

Title: US-09-841-963A-1

Perfect score: 1894  
Sequence: 1 gctcgactctcccccagcac.....ataagatactagagaactg 1894

Scoring table:  
IDENTITY\_NUC  
Gap 10.0 , Gapext 1.0

Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :  
1: N.Genesec.032802.\*  
2: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT.\*  
3: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT.\*  
4: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT.\*  
5: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT.\*  
6: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT.\*  
7: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT.\*  
8: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT.\*  
9: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1987.DAT.\*  
10: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1988.DAT.\*  
11: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1989.DAT.\*  
12: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1990.DAT.\*  
13: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT.\*  
14: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT.\*  
15: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT.\*  
16: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT.\*  
17: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT.\*  
18: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT.\*  
19: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1997.DAT.\*  
20: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT.\*  
21: /SID55/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT.\*  
22: /SID55/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT.\*  
23: /SID55/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT.\*  
24: /SID55/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.\*  
25: /SID55/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1870	98.7	1894 21	AAZ50691 Human prostate der
2	1870	98.7	1894 22	AAH47005 Human ETS suppress
3	1870	98.7	1894 22	AAH43261 Gland-specific Ets
4	1868.4	98.6	1918 22	AAD07337 Human transcriptio
5	1865.2	98.5	3317 22	AAH83266 Gland-specific Ets
6	1861.4	98.3	1905 22	AAH42468 Nucleotide sequenc
7	1018.6	53.8	1087 21	AAF21828 Human breast and o
8	738.4	39.0	1704 22	AAH47006 Mouse ETS suppress
9	391	20.6	392 21	AAH30613 Human colon cancer

10	350	18.5	427	21	AACT7746	Human cancer assoc
11	329.8	17.4	1751	22	AAAC3263	GSEF promoter and
12	263	13.9	278	21	AAAO6617	Human immunogeni
13	263	13.9	278	22	AAH93826	Human CDNA encodin
14	263	13.9	278	22	AAH93733	Human prostate-spe
15	263	13.9	278	22	AAH85047	Human prostate-spe
16	263	13.9	278	22	AAH02798	Prostate tumour an
17	237	12.5	264	21	AAAC04502	Human secreted pro
18	147.6	7.8	1515	23	ABLO9673	Drosophila melanog
19	147.6	7.8	5325	23	ABLO9672	Drosophila melanog
20	96	5.1	5317	23	ABLI0827	Drosophila melanog
21	96	5.1	18727	23	ABLI0826	Drosophila melanog
22	83.2	4.4	2266	20	AAZ41049	Human ELK-1 encodi
23	83.2	4.4	2266	20	AAZ06608	Human ELK-1 nucleo
24	80.4	4.2	2286	24	ABF96696	Mouse ischaemic co
25	75.2	4.0	2667	18	AAZ47198	Human ETS2 repress
26	75	4.0	1116	19	AAV38354	Transcription fact
27	75	4.0	1116	21	AAZ49125	Human ESX coding s
28	75	4.0	1907	19	AAV38355	Transcription fact
29	75	4.0	1907	21	AAZ36707	Nucleotide sequenc
30	75	4.0	1995	22	AAZ98700	Human ovarian canc
31	75	4.0	1996	21	AAZ7813	Human cancer assoc
32	75	4.0	2266	20	AAZ33671	Human breast tumou
33	74.8	3.9	567	22	ABA48124	Human breast cell
34	74.8	3.9	567	22	ABA66003	Human foetal liver
35	74.8	3.9	567	22	ABA33090	Probe #11556 for g
36	74.8	3.9	567	22	AAK14426	Human brain expres
37	74.8	3.9	567	22	AAK40160	Human bone marrow
38	74.8	3.9	567	22	AAI20932	Probe #10865 for g
39	74.8	3.9	567	22	AAI46176	Probe #14862 used t
40	74.8	3.9	567	22	AAI06643	Probe #6634 used t
41	74.8	3.9	2064	17	AAZ37087	ELAF matrix metal
42	74.8	3.9	2064	21	AAZ50016	Human polyomavirus
43	74.8	3.9	2073	15	AAO55149	Adenovirus E1A-F g
44	74	3.9	473	22	ABA50193	Human breast cell
45	74	3.9	473	22	ABA68128	Human foetal liver

#### ALIGNMENTS

RESULT 1	AAZ50691	standard; cDNA; 1894 BP.
ID	AAZ50691	
XX	AAZ50691	
AC	AAZ50691	
XX	23-MAY-2000	(first entry)
DE	Human prostate derived ETS factor cDNA.	
KW	Prostate Derived ETS factor; PDPE; human; chromosome 6p21.3; cancer;	
KW	loss of heterozygosity; chromosomal translocation; linkage analysis;	
KW	cytostatic; cardiant; immunosuppressive; cerebroprotective; fungicide;	
KW	antibacterial; vulnerary; neuroprotective; antiParkinsonian; nootropic;	
KW	anabolic; antiinflammatory; anorectic; hyridisation probe; forensic;	
KW	tumour marker; diagnosis; treatment; prostate cancer; blood coagulation;	
KW	autoimmune disorder; haematopoietic; immune/nervous system; stroke;	
KW	neoplasm; microbial infection; tissue regeneration; heart attack;	
KW	scarring; food additive; preservative; ss.	
XX		
OS	Homo sapiens.	
XX		
FT	Key	Location/Qualifiers
FT	CDS	416..1423
FT		/*tag= a
FT		/product= "Human prostate derived ETS factor"
XX		/note= "Expressed in prostate epithelium"
PN	W0200006589-A1.	
XX		
PD	10-FEB-2000.	
XX		

PF 02-AUG-1999; 99WO-US17470.  
XX  
PR 31-JUL-1998; 98US-0126945.  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
PA (BETH-) BETH ISRAEL DEACONESS MEDICAL CENT.  
PI Liberman TA, Oettingen JP, Kunsch CA, Endress GA, Rosen CA;  
XX  
XX  
DR MPI: 2000-195255/17.  
DR P-PSDB; AAY45003.  
XX  
XX  
PT Novel prostate derived polypeptide, polynucleotide useful for  
PT diagnosis, prevention and treatment of prostate cancer, autoimmune  
PT disorders, microbial infections and also as food additive or  
PT preservative -  
XX  
PS Claim 4; Fig 1; 132pp; English.  
XX  
XX The present cDNA sequence encodes a human prostate derived Ets factor  
CC (PDEF), isolated from human prostate carcinoma cDNA library  
CC (ATCC No.203072). PDEF gene expression is highest in tissues involved in  
CC androgen sensitivity, with enriched expression in prostate epithelium  
CC cells. PDEF gene is mapped to the human chromosome 6p21.3  
CC region that is associated with loss of heterozygosity and chromosomal  
CC translocations in various human cancers. PDEF has cytostatic, cardiant,  
CC immunosuppressive, cerebroprotective, fungicide, antibacterial,  
CC antitumor, neuroprotective, antiparkinsonian, nootropic, anabolic,  
CC antiinflammatory and anorectic activity. PDEF polynucleotides are useful  
CC in linkage analysis as markers, as hybridisation probes for differential  
CC identification of the tissues or cell types and as polymorphic markers  
CC for forensic purposes. PDEF is useful as prostate-specific tumour marker  
CC for the diagnosis and treatment of prostate cancer. PDEF sequences are  
CC useful for treating autoimmune disorders, haematopoietic, blood  
CC coagulation, immune and nervous system disorders, hyperproliferative  
CC disorders like, neoplasms and microbial infections, heart attacks,  
CC stroke, scarring and for tissue regeneration. They are also useful as  
CC food additives or preservatives.  
CC  
XX  
SQ Sequence 1894 BP; 368 A; 653 C; 571 G; 302 T; 0 other;

Query Match 98.7%; Score 1870; DB 21; Length 1894;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1879; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1 gcttgactctccacacatctcgtgactcgtgctgctgacacgtgccccagagacc 60  
DB 1 gctgactctccacacatctcgtgactcgtgctgctgacacgtgccccagagacc 60  
QY 61 agtctccaagctgtgacagctcctgcaagccctcaggttgggcttgccaagtg 120  
DB 61 agtctccaagctgtgacagctcctgcaagccctcaggttgggcttgccaagtg 120  
QY 121 ccagcagggacccctggtggtgtagggactcctctacagcagcagccctgagacc 180  
DB 121 ccagcagggacccctggtggtgtagggactcctctacagcagcagccctgagacc 180  
QY 181 gcaaccagcacccttgaggtggtgcaagcccccagtgccaacctggtgtgctct 240  
DB 181 tcagtagggcacccttgaggtggtgcaagcccccagtgccaacctggtgtgctct 240  
QY 241 gcaaccagccttggtggtggtggtggtggtggtggtggtggtggtggtggtg 300  
DB 241 gcaaccagccttggtggtggtggtggtggtggtggtggtggtggtggtggtg 300  
QY 301 cagtgcctcagctgccccacactctccggccttgagtgagtgacgtgcaagacag 360  
DB 301 cagtgcctcagctgccccacactctccggccttgagtgagtgacgtgcaagacag 360  
QY 361 ctccctgggacagcaggttaacagacacagcgcacaccccaaaagagcggcatgg 420  
DB 361 ctccctgggacagcaggttaacagacacagcgcacaccccaaaagagcggcatgg 420

QY 421 cagcgccagcccggtctcgtgacagcgtatcccccagccacctctgctgcccccgacac 480  
DB 421 cagcgccagcccggtctcgtgacagcgtatcccccagccacctctgctgcccccgacac 480  
QY 481 ggtgtcggagacagcttgaggaagcgagcgggggagtggtctcgaagacggga 540  
DB 481 ggtgtcggagacagcttgaggaagcgagcgggggagtggtctcgaagacggga 540  
QY 541 ctggaagctccagctccaccccgaccccgagcagggcctgctcgccttccgacctcta 600  
DB 541 ctggaagctccagctccaccccgaccccgagcagggcctgctcgccttccgacctcta 600  
QY 601 ctctacatgctgtaccccttgagagacagcagctgggacagcacaagccctggggcacaag 660  
DB 601 ctctacatgctgtaccccttgagagacagcagctgggacagcacaagccctggggcacaag 660  
QY 661 tcggtagagagccacactgacacagcctgagcagtgcccggtatctaacagcaagcccaagc 720  
DB 661 tcggtagagagccacactgacacagcctgagcagtgcccggtatctaacagcaagcccaagc 720  
QY 721 gggcaccctggaactgtggtcccgcggtgacacttgagagagacactcgtgagcaggt 780  
DB 721 gggcaccctggaactgtggtcccgcggtgacacttgagagagacactcgtgagcaggt 780  
QY 781 ggaagcagctgtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 840  
DB 781 ggaagcagctgtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 840  
QY 841 catcacgcagatgcccatgtagctgtagcccaagcaatgtcagaagtgtcctctgtgac 900  
DB 841 catcacgcagatgcccatgtagctgtagcccaagcaatgtcagaagtgtcctctgtgac 900  
QY 901 aagagccaataccggctgcccccatgtagcagaagccttcaggagcgtggggcacaagga 960  
DB 901 aagagccaataccggctgcccccatgtagcagaagccttcaggagcgtggggcacaagga 960  
QY 961 gctgtgcgcacatgtcggagagcagttccgcagcgtcgccttggttgggtgtgct 1020  
DB 961 gctgtgcgcacatgtcggagagcagttccgcagcgtcgccttggttgggtgtgct 1020  
QY 1021 gcaagcccaactggacatctggaagtcagcggctcgtgtagaagaagcggacttaactgtg 1080  
DB 1021 gcaagcccaactggacatctggaagtcagcggctcgtgtagaagaagcggacttaactgtg 1080  
QY 1081 ggcgaattactactgtgctcgcagcagcagtgagagagcgtggacccagcggagtgtgactc 1140  
DB 1081 ggcgaattactactgtgctcgcagcagcagtgagagagcgtggacccagcggagtgtgactc 1140  
QY 1141 atcatgtctccggagcagccatccacactgtggaagttcctcaagagatgtactcaagcc 1200  
DB 1141 atcatgtctccggagcagccatccacactgtggaagttcctcaagagatgtactcaagcc 1200  
QY 1201 ccaagctatggtcgtcctcatatggttggctcaacaagaagagaggtccttcaaatgtga 1260  
DB 1201 ccaagctatggtcgtcctcatatggttggctcaacaagaagagaggtccttcaaatgtga 1260  
QY 1261 ggaactcaagccaggtggtcggctgtggtggtggtggtggtggtggtggtggtggtg 1320  
DB 1261 ggaactcaagccaggtggtcggctgtggtggtggtggtggtggtggtggtggtggtg 1320  
QY 1321 cgacaagctgagcgtctcatcagcagtatatacaagaagggcatcaccgaaagcaga 1380  
DB 1321 cgacaagctgagcgtctcatcagcagtatatacaagaagggcatcaccgaaagcaga 1380  
QY 1381 catctccagcgtcgtctacacagttcgtgacacccatctgaatgtcgtgcccagggcc 1440  
DB 1381 catctccagcgtcgtctacacagttcgtgacacccatctgaatgtcgtgcccagggcc 1440  
QY 1441 tgaacccggcctcaagggcctctctcgtgctgctgctgctgctgctgctgctgctgctg 1500  
DB 1441 tgaacccggcctcaagggcctctctcgtgctgctgctgctgctgctgctgctgctgctg 1500

QY	1501	gggggaaaaagcggcgacgvgtgctgtctgtcgtctgtacttccagaagcccaaggtlcaagvgagvg	1500
Db	1501	gggggaaaaagcggcgacgtctgtctgtcgtctgtacttccagaagcccaaggtlcaagvgagvg	1560
QY	1561	ggcaaccacacggcccccaaggggatactggtccctctggggcgcttcgggagacatctgggccaag	1620
Db	1561	ggcaaccacacggcccccaaggggatactggtccctctggggcgcttcgggagacatctgggccaag	1620
QY	1621	gtgtcttcctctccagggcccaagcgtctgtctccctctggagagacagggagacagggcgtctccc	1680
Db	1621	gtgtcttcctctccagggcccaagcgtctgtctccctctggagagacagggagagcagggcgtctccc	1680
QY	1681	caaaacactgctctctgtgaccccaagatcttccagagccagagcctcacagaaagggcgacgtgactcg	1740
Db	1681	caaaacactgctctctctgtgaccccaagatcttccagagccagagcctcacagaaagggcgacgtgactcg	1740
QY	1741	acaaagggcccaagcagctgacttccagagccctctctgtctccatcccccctggctctccatctctca	1800
Db	1741	acaaagggcccaagcagctgacttccagagccctctctgtctccatcccccctggctctccatctctca	1800
QY	1801	cccaacactggcattgtgtgcagggagacatctgcaccccctcaagtcttgggcagccagagatgtcc	1860
Db	1801	cccaacactggcattgtgtgcagggagacatctgcaccccctcaagtcttgggcagccagagatgtcc	1860
QY	1861	ccggggagatgataataaagatactctgagaactg	1894
Db	1861	ccggggagatgataataaagatactctgagaactg	1894

RESULT	2
ID	AAH47005
	AAH47005 standard; cDNA; 1894 BP.
XX	
AC	AAH47005;
DT	29-OCT-2001 (first entry)
XX	
DE	Human ETS suppressor factor (esf) protein encoding cDNA.
XX	
KM	ETS suppressor factor; esf; apoptosis; cancer; cytostatic; human;
XX	growth-suppressor; transcription factor; gene-therapy; ss.
OS	Homo sapiens.
XX	
FH	Key
FT	CDS
FT	Location/Qualifiers
FT	416..1423
FT	/tag= a
FT	/product= "human esf"
XX	
PN	W0200157186-A2.
PD	
XX	09-AUG-2001.
XX	
PF	05-FEB-2001; 2001MO-US03640.
XX	
PR	04-FEB-2000; 2000US-0180244.
XX	
PA	(MUSC-) MUSC FOUND RES DEV.
XX	
PI	Watson DK;
DR	WPI; 2001-465703/50.
XX	P-PDB; AAB85609.
PT	
PT	Fragment of a human ETS suppressor factor protein for inhibiting the
PT	growth or proliferation of and/or inducing apoptosis of cancer cells,
PT	especially prostate, breast, colon or cervical cancer cells for
PT	treatment -
XX	
PS	Examples; Fig 1A; 94pp; English.
CC	The invention relates to methods for treating or preventing cancer by
CC	modifying the expression of ETS suppressor factor (esf) protein gene o

the activity of the gene product. The esi protein or its modified form are useful for inhibiting the growth or proliferation of and/or inducing apoptosis of cancer cells, especially prostate, breast, colon or cervical cancer cells. They are useful for treating cancer in a subject when introduced in to the vicinity of the cancer in a subject. The methods provided are useful for inhibiting the specific degradation of esi protein in a cell; for diagnosing a preneoplastic or neoplastic condition in a human by e.g. PCR and for identifying a compound that inhibits the degradation of esi protein in cancer cells. The present sequence represents a human esi protein encoding cDNA.

Sequence 1894 BP; 368 A; 653 C; 571 G; 302 T; 0 other;

Query Match	98.7%	Score 1870;	DB 22;	Length 1894;
Best Local Similarity	99.28%	Pred. No. 0;		
Matches 1879; Conservative	0;	Mismatches 15;	Indels 0;	Gaps 0;

QY	1	gftgjaattccctcccaagacaattccctgacatctgacgtgctacacgtctcccaagagacc	60
Db	1	gtctgjaattccctcccaagacaattccctgacatctgacgtgctacacgtctcccaagagacc	60
QY	61	agtctctccaagctctgctcagctctccctgcaagagccctccagagtttgtagctctgccaagt	120
Db	61	agtctctccaagctctgctcagctctccctgcaagagccctccagagtttgtagctctgccaagt	120
QY	121	ccagcagcagcagcctctgagcttgaggttgaggtgagctctccctacagcgacagccttgagac	180
Db	121	ccagcagcagcagcctctgagcttgaggttgaggtgagctctccctacagcgacagccttgagac	180
QY	181	gccaacacagacacacccctcttgagaggttgagcagagcccccagaatgagccaaacttgagctct	240
Db	181	tcaagagagagcagacacccctcttgagaggttgagcagagcccccagaatgagctctgagctct	240
QY	241	gccaacacagacacccctctgagcagccctctgagctctccagccccaagatgagctctgcaagacaagc	300
Db	241	gccaacacagacacccctctgagcagccctctgagctctccagccccaagatgagctctgcaagacaagc	300
QY	301	cagctgagctctcagctctgacccaacacctctcccgagcccttgagagtctgagcactgcaagacaag	360
Db	301	cagctgagctctcagctctgacccaacacctctcccgagcccttgagagtctgagcactgcaagacaag	360
QY	361	ctccctcttgagcacaacagacagctctaacagacaacagccagccccaagacagccagctgag	420
Db	361	ctccctcttgagcacaacagacagctctaacagacaacagccagccccaagacagccagctgag	420
QY	421	cagcgagccagcccggtgtctctgagcagaggtatcccccagacacacctctctgctctgcccacagac	480
Db	421	cagcgagccagcccggtgtctctgagcagaggtatcccccagacacacctctctgctctgcccacagac	480
QY	481	ggtgtctcgagcagacagagctctgagagaaagcagccagcggtgagcagtgtgtctctcgagagacgtgga	540
Db	481	ggtgtctcgagcagacagagctctgagagaaagcagccagcggtgagcagtgtgtctctcgagagacgtgga	540
QY	541	ctgagagctccccaattccacaccccgacagcccccagagagagagcctgtctccgctcttcagacatctctcta	600
Db	541	ctgagagctccccaattccacaccccgacagcccccagagagagagcctgtctccgctcttcagacatctctcta	600
QY	601	ctcttgacaatgctgtatccctctgagagcagagcctgagctcagcccaagagcagcccttgagagcag	660
Db	601	ctcttgacaatgctgtatccctctgagagcagagcctgagctcagcccaagagcagcccttgagagcag	660
QY	661	ctgagagagagagcacaacttgacacagcctctgagagcagtgtgcccgtgcatctgacagccaagcccacagc	720
Db	661	ctgagagagagagcacaacttgacagcctctgagagcagtgtgcccgtgcatctgacagccaagcccacagc	720
QY	721	gggagcccccctgagagctctgagcttgagcccgagggcttgagcctcttgagagagagacatctgcttgagagcaggt	780
Db	721	gggagcccccctgagagctctgagcttgagcccgagggcttgagcctcttgagagagagacatctgcttgagagcaggt	780
QY	781	ggaagtccatctgtgtgtgtgagcagaaagtgtctcaagagagacatctgagacagcctctgcaagctctctcaa	840
Db	781	ggaagtccatctgtgtgtgtgagcagaaagtgtctcaagagagacatctgagacagcctctgcaagctctctcaa	840

QY 841 catcacgcagatcccatgtgacttgagaccacgaatgtgcaagaatggtctctgtgac 900  
 Db 841 catcacgcagatcccatgtgacttgagaccacgaatgtgcaagaatggtctctgtgac 900  
 QY 901 agaacacacaaataacgcgtgtgcccccaatggcgaagagcttccagagctgtgcggaagga 960  
 Db 901 agaacacacaaataacgcgtgtgcccccaatggcgaagagcttccagagctgtgcggaagga 960  
 QY 961 gctgtgcacatgtgcgagagagagcagttcccgacagctgcgccccctgtgggtggagtggtct 1020  
 Db 961 gctgtgcacatgtgcgagagagagcagttcccgacagctgcgccccctgtgggtggagtggtct 1020  
 QY 1021 gcaagccacaccttgagacatctggaagtcagagcgcttggaatgaagagcggaactcaactg 1080  
 Db 1021 gcaagccacaccttgagacatctggaagtcagagcgcttggaatgaagagcggaactcaactg 1080  
 QY 1081 ggcgaatcacactgtgtctctgacacagtgagagagcttgacacgacagcgagtggtgagctc 1140  
 Db 1081 ggcgaatcacactgtgtctctgacacagtgagagagcttgacacgacagcgagtggtgagctc 1140  
 QY 1141 atcatgtctcgagcagccacatccacccctgtgcaagttcctcaagagctgtctactcaagcc 1200  
 Db 1141 atcatgtctcgagcagccacatccacccctgtgcaagttcctcaagagctgtctactcaagcc 1200  
 QY 1201 ccacagctatgagcgcgttcatataggtgtgtcaacaagagagagagcattccaanaattga 1260  
 Db 1201 ccacagctatgagcgcgttcatataggtgtgtcaacaagagagagagcattccaanaattga 1260  
 QY 1261 ggaatcagccagaggtgtgcgccccggtgtgtgggcatctcgcaagaacgcttccgcacatgaactg 1320  
 Db 1261 ggaatcagccagaggtgtgcgccccggtgtgtgggcatctcgcaagaacgcttccgcacatgaactg 1320  
 QY 1321 cgacaagctgagcgcgcctccacatccgcagactcttaacaagaagagcatalctccggaagcaga 1380  
 Db 1321 cgacaagctgagcgcgcctccacatccgcagactcttaacaagaagagcatalctccggaagcaga 1380  
 QY 1381 catctccagcgcctctgtctaacagttcgtgcaaccacatctgagctgtgcgccccagggcc 1440  
 Db 1381 catctccagcgcctctgtctaacagttcgtgcaaccacatctgagctgtgcgccccagggcc 1440  
 QY 1441 tgaaccgcgcctcctcagggggcctctctctgtcctgtcctgctcagagccagcccttgagatg 1500  
 Db 1441 tgaaccgcgcctcctcagggggcctctctctgtcctgtcctgctcagagccagcccttgagatg 1500  
 QY 1501 ggggaaaaaagcggcagtgctgtctgtcgtctgacatccagagcccaaggtcagggagggg 1560  
 Db 1501 ggggaaaaaagcggcagtgctgtctgtcgtctgacatccagagcccaaggtcagggagggg 1560  
 QY 1561 gcaacaaactgtcccccaggggagatagtggtctctgtgagccttcgggacataggggaggg 1620  
 Db 1561 gcaacaaactgtcccccaggggagatagtggtctctgtgagccttcgggacataggggaggg 1620  
 QY 1621 gtgtctctctctcagggcgcgcgtgtctctctctctgagagcagaagagagagtgctgtccccc 1680  
 Db 1621 gtgtctctctctcagggcgcgcgtgtctctctctctgagagcagaagagagagtgctgtccccc 1680  
 QY 1681 caaacacctgtccttgacccccagacatcttcagagagcagagagcttacaagaagggcagtgactg 1740  
 Db 1681 caaacacctgtccttgacccccagacatcttcagagagcagagagcttacaagaagggcagtgactg 1740  
 QY 1741 acaaaagccacagagcagttcagagcctctctctgtcctacatcccccctgtcctccattctgca 1800  
 Db 1741 acaaaagccacagagcagttcagagcctctctctgtcctacatcccccctgtcctccattctgca 1800  
 QY 1801 ccaaacctgtgcatgtgtcagagagagacatgcaacccctcctcgtgtggagagcagaagatgccc 1860  
 Db 1801 ccaaacctgtgcatgtgtcagagagagacatgcaacccctcctcgtgtggagagcagaagatgccc 1860  
 QY 1861 cccgggaatgatatataaagataactaagaactg 1894  
 Db 1861 cccgggaatgatatataaagataactaagaactg 1894

RESULT 3  
 AAC83261  
 ID AAC83261 standard: DNA; 1894 BP.  
 XX  
 AC AAC83261;  
 XX  
 DT 16-MAR-2001 (first entry)  
 DE Gland-specific Ets transcription factor (GSEF) nucleotide sequence.  
 XX  
 KW Transcription factor; gland-specific Ets transcription factor; GSEF;  
 KW metastatic potential; cancer; tumour; metastasis; breast; prostate;  
 KW leukemia; lymphoma; sarcoma; melanoma; chromosome 6p21.1-6p21.3; ds.  
 OS Homo sapiens.  
 XX  
 PN WO200070092-A1.  
 XX  
 PD 23-NOV-2000.  
 XX  
 PF 12-MAY-2000; 2000MO-US13173.  
 XX  
 PR 14-MAY-1999; 99US-0134112.  
 XX  
 PA (CHIR ) CHIRON CORP.  
 XX  
 PI Kaufmann J, Xin H, Harrowe G;  
 XX  
 DR WPI: 2001-041019/05.  
 DR F-PSDB; AAB49628.  
 XX  
 PT Detecting metastatic and potential metastatic cancerous cells, useful  
 PT for diagnosing, prognosing, grading and staging of cancers by detecting  
 PT gland-specific Ets transcription factor gene product in a biological  
 PT sample from a cell -  
 XX  
 PS Disclosure: Page 81-83; 95pp; English.  
 XX  
 CC This invention relates to a method for the detection and determination of  
 CC the metastatic potential of a cell. The method comprises detecting a  
 CC gland-specific Ets transcription factor (GSEF) gene product in a test  
 CC sample. Detection of a GSEF gene product in the test sample in amount  
 CC lower than that in a normal cell, is indicative of a cell with high  
 CC metastatic potential. The method is useful for determining the metastatic  
 CC potential of a cell, for the diagnosis and prognosis of cancer as well as  
 CC grading and staging of cancers by detecting GSEF expression in a  
 CC biological test sample. The method may also be used to monitor patients  
 CC having a predisposition to develop a particular cancer. GSEF polypeptides  
 CC are useful for producing antibodies, in cancer diagnosis, prognosis,  
 CC grading, staging and management of breast and prostate tumours, and in  
 CC detecting polymorphisms in the sequence. GSEF genes and proteins are also  
 CC useful in gene therapy. GSEF gene product expression levels can be used  
 CC in conjunction with any tissue in which an alteration in GSEF gene  
 CC product expression levels is associated with development of a  
 CC cancer-associated phenotype. Cancers, which can be monitored include  
 CC cancers of the prostate, cervix, lung and colon, melanomas, colorectal  
 CC adenocarcinomas, Wilm's tumour, retinoblastoma, sarcomas, myosarcomas,  
 CC lung carcinomas, leukemia, and lymphomas. The GSEF gene is located on  
 CC human chromosome 6, specifically at 6p21.1-6p21.3. The present sequence  
 CC represents the DNA encoding GSEF.  
 XX  
 SQ Sequence 1894 BP; 368 A; 653 C; 571 G; 302 T; 0 other;  
 Query Match 98.7%; Score 1870; DB 22; Length 1894;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 1879; Conservative 0; Mismatches 15; Indels 0; Gaps 0;  
 QY 1 gctgtacctcccccagacatctcctgtgacactgtgcgtgtccacactgtccacagacc 60  
 Db 1 gctgtacctcccccagacatctcctgtgacactgtgcgtgtccacactgtccacagacc 60

QY 61 agtctccaaagcctgtctgacagctccctgtgcaagccctcaaggttgaggctcttgcaaggtg 120  
 |||||  
 Db 61 agtctccaaagcctgtctgacagctccctgtgcaagccctcaaggttgaggctcttgcaaggtg 120  
 QY 121 ccagcaagagcagccctgtgagctgtgaggtgaggtactcccttaagagcaagcccttgagacc 180  
 |||||  
 Db 121 ccagcaagagcagccctgtgagctgtgaggtgaggtactcccttaagagcaagcccttgagacc 180  
 QY 181 gcaacacagccacccctgtgaggtgtgaggtgaggtgaggtgaggtgaggtgaggtgaggtg 240  
 |||||  
 Db 181 gcaacacagccacccctgtgaggtgtgaggtgaggtgaggtgaggtgaggtgaggtgaggtg 240  
 QY 241 gcaacacagccacccctgtgaggtgtgaggtgaggtgaggtgaggtgaggtgaggtgaggtg 300  
 |||||  
 Db 241 gcaacacagccacccctgtgaggtgtgaggtgaggtgaggtgaggtgaggtgaggtgaggtg 300  
 QY 301 cagtgagctctgagctgtgagctgtgagctgtgagctgtgagctgtgagctgtgagctgtgag 360  
 |||||  
 Db 301 cagtgagctctgagctgtgagctgtgagctgtgagctgtgagctgtgagctgtgagctgtgag 360  
 QY 361 ctccctgagccacagcagctcaagacagacagcagcagcagcagcagcagcagcagcagcagc 420  
 |||||  
 Db 361 ctccctgagccacagcagctcaagacagacagcagcagcagcagcagcagcagcagcagcagc 420  
 QY 421 cagcagcagcccggtgtctgagcagcgtatcccccagccacccctgtctgtcccccagacc 480  
 |||||  
 Db 421 cagcagcagcccggtgtctgagcagcgtatcccccagccacccctgtctgtcccccagacc 480  
 QY 481 ggtgtcgtgagcagagctgtgaggtgaggtgaggtgaggtgaggtgaggtgaggtgaggtgag 540  
 |||||  
 Db 481 ggtgtcgtgagcagagctgtgaggtgaggtgaggtgaggtgaggtgaggtgaggtgaggtgag 540  
 QY 541 ctgagagctcccaagctccaccccgccagccagcagcagcagcagcagcagcagcagcagcagc 600  
 |||||  
 Db 541 ctgagagctcccaagctccaccccgccagccagcagcagcagcagcagcagcagcagcagcagc 600  
 QY 601 ctttgaacatgtctgtaccccttgagagcagcagcagcagcagcagcagcagcagcagcagcagc 660  
 |||||  
 Db 601 ctttgaacatgtctgtaccccttgagagcagcagcagcagcagcagcagcagcagcagcagcagc 660  
 QY 661 tctggagagagcacccttgacacagcctgtgagcagctgtgacatgtgacagcagcagcagcagc 720  
 |||||  
 Db 661 tctggagagagcacccttgacacagcctgtgagcagctgtgacatgtgacagcagcagcagcagc 720  
 QY 721 gggcagcctgtgagctgtgagcctgtgagcctgtgagcctgtgagcctgtgagcctgtgagc 780  
 |||||  
 Db 721 gggcagcctgtgagctgtgagcctgtgagcctgtgagcctgtgagcctgtgagcctgtgagc 780  
 QY 781 gcaagctcaatgtgtgtgagcagagctgtcaagagacatcgagagccgctcgcaagctgtccaa 840  
 |||||  
 Db 781 gcaagctcaatgtgtgtgagcagagctgtcaagagacatcgagagccgctcgcaagctgtccaa 840  
 QY 841 catcaacgcaagatcccatgtgacatgtgagcagcccaagcaatgtgtgacatgtgtgtgac 900  
 |||||  
 Db 841 catcaacgcaagatcccatgtgacatgtgagcagcccaagcaatgtgtgacatgtgtgtgac 900  
 QY 901 agagacacaaatcacggtgtgagccccaatgtgcaagagcccttcagagagctgtgagcagagga 960  
 |||||  
 Db 901 agagacacaaatcacggtgtgagccccaatgtgcaagagcccttcagagagctgtgagcagagga 960  
 QY 961 gctgtgtgacatgtgtgagcagagctgtgagcagcagcagcagcagcagcagcagcagcagcag 1020  
 |||||  
 Db 961 gctgtgtgacatgtgtgagcagagctgtgagcagcagcagcagcagcagcagcagcagcagcag 1020  
 QY 1021 gcaac 1080  
 |||||  
 Db 1021 gcaac 1080  
 QY 1081 ggcagattcaactactgtgtctgtgacacagctgtgagagagctgtgagcagcagcagcagcagc 1140  
 |||||  
 Db 1081 ggcagattcaactactgtgtctgtgacacagctgtgagagagctgtgagcagcagcagcagcagc 1140  
 QY 1141 atcaatgtcccgaggcagcagccatccacacctgtgtgagcttctcaagagatgtgtactcaagcc 1200

Db 1141 atcaatgtcccgaggcagcagccatccacacctgtgtgagcttctcaagagatgtgtactcaagcc 1200  
 |||||  
 QY 1201 ccacagctatgtgcgcttcatatgagtgagctcaacaaagagagagcattcttaaaattga 1260  
 |||||  
 Db 1201 ccacagctatgtgcgcttcatatgagtgagctcaacaaagagagagcattcttaaaattga 1260  
 QY 1261 ggaactcaagccacagctgtgagccgagctgtgaggtgaggtgaggtgaggtgaggtgaggtgag 1320  
 |||||  
 Db 1261 ggaactcaagccacagctgtgagccgagctgtgaggtgaggtgaggtgaggtgaggtgaggtgag 1320  
 QY 1321 cgaacagctgtgagccgctccatccagcagcttatacaagaagagcattatccgaaagccaga 1380  
 |||||  
 Db 1321 cgaacagctgtgagccgctccatccagcagcttatacaagaagagcattatccgaaagccaga 1380  
 QY 1381 catctccacagcagcctgtgtctacaggtgtgtgacacacacacacacacacacacacacacac 1440  
 |||||  
 Db 1381 catctccacagcagcctgtgtctacaggtgtgtgacacacacacacacacacacacacacacac 1440  
 QY 1441 tgaacacccgcccctcaagggcctctctcctgtgagcctctgagcagcagcagcagcagcagcag 1500  
 |||||  
 Db 1441 tgaacacccgcccctcaagggcctctctcctgtgagcctctgagcagcagcagcagcagcagcag 1500  
 QY 1501 ggggaaacacgggacgtgtgtctgt 1560  
 |||||  
 Db 1501 ggggaaacacgggacgtgtgtctgt 1560  
 QY 1561 gcaac 1620  
 |||||  
 Db 1561 gcaac 1620  
 QY 1621 gtgtctctctctcaagccacagctgtctctctctctctctctctctctctctctctctctctcc 1680  
 |||||  
 Db 1621 gtgtctctctctcaagccacagctgtctctctctctctctctctctctctctctctctctctcc 1680  
 QY 1681 caaac 1740  
 |||||  
 Db 1681 caaac 1740  
 QY 1741 acaaaagccacagcagctgt 1800  
 |||||  
 Db 1741 acaaaagccacagcagctgt 1800  
 QY 1801 ccaac 1860  
 |||||  
 Db 1801 ccaac 1860  
 QY 1861 cccgggaatgataataaagatactagagaactg 1894  
 |||||  
 Db 1861 cccgggaatgataataaagatactagagaactg 1894

RESULT 4  
 AAD07337  
 ID AAD07337 standard; cDNA; 1918 BP.  
 XX  
 AC AAD07337;  
 XX  
 DT 04-AUG-2001 (first entry)  
 XX  
 DE Human transcription factor, prost-ets cDNA.  
 XX  
 KW Human; transcription factor protein; PROST-Ets; cytostatic; gene therapy;  
 KM vaccine; cancer; prostate; breast; ovary; benign prostatic hyperplasia;  
 KW antisense therapy; ribozyme therapy; therapeutic; cell proliferation; ss.  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 422..1429  
 FT /tag= a  
 FT /product= "Human PROST-Ets protein"  
 XX

PN MO200142472-A2.  
XX  
PD 14-JUN-2001.  
XX  
PF 29-NOV-2000; 2000MO-USA22295.  
XX  
PR 30-NOV-1999; 99US-0168182.  
PR 21-NOV-2000; 2000US-0718159.  
XX  
PA (SCHD ) SCHERING AG.  
PI Harkins R, Lin RJ, Luke M, Monteciarlo F, Parkes D, Parry G;  
PI Steinhilber R, Van Heut PT, Xuan J;  
XX  
DR MPI: 2001-381692/40.  
XX P-SDB: AAE03556.  
XX  
PT New transcription factor polypeptides, designated PROST-Ets  
PT polypeptides, useful for diagnostic, research and therapeutic  
PT applications  
XX  
PS Claim 8; Fig 1; 74pp; English.  
XX  
XX The invention relates to human transcription factor protein, designated  
CC as PROST-Ets and its corresponding cDNA molecule. PROST-Ets proteins and  
CC nucleic acids are useful for treating a disease-state in human patient,  
CC such as prostate, breast and ovarian cancer which is associated with  
CC inappropriate expression of PROST-Ets and where the patient is in need of  
CC decreased levels or activity of PROST-Ets. PROST-Ets is useful for  
CC diagnosing and treating diseases of cell proliferation, such as prostate  
CC cancer and benign prostatic hyperplasia. Prost-ets nucleic acids are used  
CC as DNA probes, as target for antisense and ribozyme therapy, as template  
CC for producing antisense polynucleotides, and as diagnostic reagent for  
CC research, biological, clinical and therapeutic purposes. Prost-ets DNA is  
CC also used in gene therapy. PROST-Ets protein is useful for generating  
CC antibodies, and for stimulating immune response in cells containing  
CC PROST-Ets proteins. The present cDNA sequence encodes human transcription  
CC factor, designated as PROST-Ets. Prost-ets cDNA was found in a cDNA clone  
CC obtained from human prostate tissues.  
XX  
SQ Sequence 1918 BP; 385 A; 656 C; 574 G; 303 T; 0 other;

Query Match 98.6%; Score 1868.4; DB 22; Length 1918;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1878; Conservative 0; Mismatches 16; Indels 0; Gaps 0;  
OY 1 gtctgactctctccagacatctcgtcactctgctgctgtccacactgcccacagacc 60  
DB 7 gtctgactctctccagacatctcgtcactctgctgctgtccacactgcccacagacc 66  
OY 61 agtctccaaagctgtgcaagctccctgcaagccctgaagttggccttgccaagtg 120  
DB 67 agtctccaaagctgtgcaagctccctgcaagccctgaagttggccttgccaagtg 126  
OY 121 cgaagcagcagcctgtgctggtggtgagtgagtgactccctcaagcagcagcctgtgagc 180  
DB 127 cgaagcagcagcctgtgctggtggtgagtgagtgactccctcaagcagcagcctgtgagc 186  
OY 181 gcaacacagcagcctgtgagtggtgcaagccccagctgagccaactgtgctgctctc 240  
DB 187 tcagaggggccaaccccttgaggtggtgcaagccccagctgagccaactgtgctgctctc 246  
OY 241 gcaacacagcctgtgctgctgttcgcgtgagcccccaagatgctgtgagacagc 300  
DB 247 gcaacacagcctgtgctgctgttcgcgtgagcccccaagatgctgtgagacagc 306  
OY 301 cagtgagcctgaagtcgcaacactcttcgagcagcctgtgagtgagtgagcagcaag 360  
DB 307 cagtgagcctgaagtcgcaacactcttcgagcagcctgtgagtgagtgagcagcaag 366  
OY 361 ctcccttgggacagcagctaaacagacagcagcagcccaaaagagcagcgctggg 420  
DB 367 ctcccttgggacagcagctaaacagacagcagcagcccaaaagagcagcgctggg 426  
OY 421 cagcgcaagccgggtctgagcagcgtatcccccagcacctctctgctcccccagac 480  
DB 427 cagcgcaagccgggtctgagcagcgtatcccccagcacctctctgctcccccagac 486  
OY 481 ggtgtcgagcagcctgtgaggaagcgcagcagcggtgagtggtctgagagagggg 540  
DB 487 ggtgtcgagcagcctgtgaggaagcgcagcagcggtgagtggtctgagagagggg 546  
OY 541 ctgagatcccaagtcaccccgccacagcccgagcagggctgtccgctctcgaactcccta 600  
DB 547 ctgagatcccaagtcaccccgccacagcccgagcagggctgtccgctctcgaactcccta 606  
OY 601 ctgtgacatgtgtacacctgagacaaagcctggtgagcagccccctgtggcagcag 660  
DB 607 ctgtgacatgtgtacacctgagacaaagcctggtgagcagccccctgtggcagcag 666  
OY 661 tcggagagagcagcagcctgagcagctgagcagctgagcagctgagcagcagcagc 720  
DB 667 tcggagagagcagcagcctgagcagctgagcagctgagcagctgagcagcagcagc 726  
OY 721 ggcacacctgagactgtgtccggcggtgagccttgagagagacactgctgagacagt 780  
DB 727 ggcacacctgagactgtgtccggcggtgagccttgagagagacactgctgagacagt 786  
OY 781 gcaatccatgtgtgtggtgaggaagtgctcaagagacatcgaagacggtccgcaagctgtc 840  
DB 787 gcaatccatgtgtgtggtgaggaagtgctcaagagacatcgaagacggtccgcaagctgtc 846  
OY 841 cacaacgcagatcccatgtgacgtgagagccccaagcaatgtgcagaagtgtctctgtgac 900  
DB 847 cacaacgcagatcccatgtgacgtgagagccccaagcaatgtgcagaagtgtctctgtgac 906  
OY 901 agagacccaataacggctgccccccatgaggaagccttcagagagctgagcagcagga 960  
DB 907 agagacccaataacggctgccccccatgaggaagccttcagagagctgagcagcagga 966  
OY 961 gctgtgcacatgtctcgaagagagcagcttcgcgaagcagctccgctgtgtgagatgtgtc 1020  
DB 967 gctgtgcacatgtctcgaagagagcagcttcgcgaagcagctccgctgtgtgagatgtgtc 1026  
OY 1021 gcaagcccaactgtgacatctgtgaagtcagcggtgagtgaggaagagcggtccactgtg 1080  
DB 1027 gcaagcccaactgtgacatctgtgaagtcagcggtgagtgaggaagagcggtccactgtg 1086  
OY 1081 ggcgaattcaactgtgctcgaccagtgaggaagtgagctgagccagcagcagctgtgac 1140  
DB 1087 ggcgaattcaactgtgctcgaccagtgaggaagtgagctgagccagcagcagcagctgtgac 1146  
OY 1141 atcatgtctcgggagcagcccatcactgtgtgagcttccctcaagagatgtgactcaagcc 1200  
DB 1147 atcatgtctcgggagcagcccatcactgtgtgagcttccctcaagagatgtgactcaagcc 1206  
OY 1201 ccaagcagctgtgcgctcatatggtgtgtcctcaaaaagagagagctcttcaaatgtga 1260  
DB 1207 ccaagcagctgtgcgctcatatggtgtgtcctcaaaaagagagagctcttcaaatgtga 1266  
OY 1261 ggaactcaagcccaagctgtgcccgtctgtgtggtggtatccgcaaaaacgctccgcata 1320  
DB 1267 ggaactcaagcccaagctgtgcccgtctgtgtggtggtatccgcaaaaacgctccgcata 1326  
OY 1321 cgaacagctgtgacgctcctcaacccagctcttaaaaagagagatcctccggaagcaga 1380  
DB 1327 cgaacagctgtgacgctcctcaacccagctcttaaaaagagagatcctccggaagcaga 1386  
OY 1381 catctccacagcctcgctctacacagcttgcgtgaccccaatcgtgagctgtgagcagggcc 1440  
DB 1387 catctccacagcctcgctctacacagcttgcgtgaccccaatcgtgagctgtgagcagggcc 1446  
OY 1441 tgaacccgcctcaagggcctctctctctgctgtgctgtcctcaagcagcagcctgtgag 1500  
DB 1447 tgaacccgcctcaagggcctctctctctgctgtgctgtcctcaagcagcagcctgtgag 1506





```
QY 721 gggcaacctggaactggtgctccgagcggtgacaccttgagagagacactgcgtgagagaggt 780
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2120 gggcaacctggaactggtgctccgagcggtgacaccttgagagagacactgcgtgagagaggt 2179
QY 781 gcaagtcacgtggtggtggtgagaaagtctcaagaagacacacgagcgctcgcaagctgtctcaa 840
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2180 gcaagtcacgtggtggtggtgagaaagtctcaagaagacacacgagcgctcgcaagctgtctcaa 2239
QY 841 catcacccgagatcccatgagatctgagaccccgacaaatgtgcagaaagtgtctctgtgac 900
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2240 catcacccgagatcccatgagatctgagaccccgacaaatgtgcagaaagtgtctctgtgac 2299
QY 901 agagacccaataccggctgccccccatgagcgagcgctcccaagagctgagcgagcaaga 960
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2300 agagacccaataccggctgccccccatgagcgagcgctcccaagagctgagcgagcaaga 2359
QY 961 gctgtgagcagatctcgagagagagagcttcgcgacagcgctgcgcccctggtgtgagatgtct 1020
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2360 gctgtgagcagatctcgagagagagagcttcgcgacagcgctgcgcccctggtgtgagatgtct 2419
QY 1021 gcaagcgccacactggaatctggaagtcaagcgctggtgagaaagcgagacttcaccttg 1080
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2420 gcaagcgccacactggaatctggaagtcaagcgctggtgagaaagcgagacttcaccttg 2479
QY 1081 ggcgaatcactactgtgcttcgacccagtgagagagctlgagacccgacagcgagtgagactc 1140
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2480 ggcgaatcactactgtgcttcgacccagtgagagagctlgagacccgacagcgagtgagactc 2539
QY 1141 atcagtctccgggagagccacacactgtgagagcttcctcaagagagctgtctctcaagcc 1200
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2540 atcagtctccgggagagccacacactgtgagagcttcctcaagagagctgtctctcaagcc 2599
QY 1201 ccaagactatgagcgcttcattaggtggtcacaagaagagagagcgagcttcaaaatgca 1260
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2600 ccaagactatgagcgcttcattaggtggtcacaagaagagagagcgagcttcaaaatgca 2659
QY 1261 ggaactagcccaaggtgagcccggtgtggtggtgacacccgaaagacccgtcccgacatgaaactg 1320
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2660 ggaactagcccaaggtgagcccggtgtggtggtgacacccgaaagacccgtcccgacatgaaactg 2719
QY 1321 cgaacagctggaagcgcttcacacccagcttcacaaagaagagcgatattctcggaagcgagaa 1380
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2720 cgaacagctggaagcgcttcacacccagcttcacaaagaagagcgatattctcggaagcgagaa 2779
QY 1381 catctcccaagcgctgctctacacagctctgcaacccacatcagctcctcgcccaagcgcc 1440
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2780 catctcccaagcgctgctctacacagctctgcaacccacatcagctcctcgcccaagcgcc 2839
QY 1441 tgaaacccgacctcaggggacctctctcctgctgacctgacctcctcaagcgccctgagatg 1500
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2840 tgaaacccgacctcaggggacctctctcctgctgacctgacctcctcaagcgccctgagatg 2899
QY 1501 ggggaaaaagggaggtgctgtcgtcgtcgtgacaccttcagagcgccaaaggtcagggaggg 1560
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2900 ggggaaaaagggaggtgctgtcgtcgtcgtcgtccttcagagcgccaaaggtcagggaggg 2959
QY 1561 gcaacacacgcccccgagggagatagtgtcctctggtggtccttgaggaacatggtggaggg 1620
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2960 gcaacacacgcccccgagggagatagtgtcctctggtggtccttgaggaacatggtggaggg 3019
QY 1621 gtgcttctctcagggcccaagctgtcctcccttgagagagacagagagagagaggtgtctccc 1680
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 3020 gtgcttctctcagggcccaagctgtcctcccttgagagagacagagagagagaggtgtctccc 3079
QY 1681 caaacactgtccttgagacccagatcttcagagcagaagcttaagaagagcgagtgactcg 1740
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 3080 caaacactgtccttgagacccagatcttcagagcagaagcttaagaagagcgagtgactcg 3139
QY 1741 acaaaaggccagcgagctcagggcctctctgtctcatcccccctgtcccccattctgca 1800
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 3140 acaaaaggccagcgagctcagggcctctctgtctcatcccccctgtcccccattctgca 3199
QY 1801 ccacacctggcagtggtgagagacatctgcaacccctcagttggtgagccaggtgagtgcc 1860
```

```
Db 3200 ccacacctgagatgtgtgagggagacatctgcacacctgtggtggtgagcgaggtgccc 3259
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1861 ccggtgaatgataataaagataactagagaactg 1894
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 3260 ccggtgaatgataataaagataactagagaactg 3293
```

## RESULT 6

AAH42468 standard; cDNA; 1905 BP.

AAH42468;

01-Oct-2001 (first entry)

Nucleotide sequence of human prostate associated Ets protein (PRAEP).

Human; prostate associated Ets protein; PRAEP; immunological disorder;  
cell proliferation disorder; reproductive disorder; psoriasis; diabetes;  
developmental disorder; cancer; arteriosclerosis; multiple sclerosis;  
acquired immunodeficiency syndrome; AIDS; polycystic ovary syndrome;  
ectopic pregnancy; gonadal dysgenesis; achondroplastic dwarfism; ss.

Homo sapiens.

Key Location/Qualifiers

FT CDS 430..1437

/\*tag= a /product= "prostate associated Ets protein (PRAEP)"

US6265565-B1.

PD 24-JUL-2001.

PF 03-APR-1998; 98US-0055113.

PR 03-APR-1998; 98US-0055113.

PA (INCYTE) INCYTE GENOMICS INC.

PI Bandman O, Guegler KJ, Lal P, Corley NC;

XX WPI: 2001-463945/50.

DR P-PSDB; AAG63017.

PT Polynucleotides encoding human prostate associated Ets proteins, useful  
for preventing, diagnosing and treating, e.g. cancer, diabetes,

PS psoriasis and dwarfism -

XX Claim 3; Fig 1A-E; 31pp; English.

The present sequence encodes a human prostate associated Ets protein  
(PRAEP). PRAEP may be used in the prevention, treatment and diagnosis  
of diseases associated with inappropriate PRAEP expression such as  
cell proliferation, immunological, reproductive and developmental  
disorders. The PRAEP polypeptides may be used as antigens in the  
production of antibodies against PRAEP and in assays to identify  
modulators (agonists and antagonists) of PRAEP expression and activity.  
The anti-PRAEP antibodies and PRAEP antagonists may also be used to  
down regulate PRAEP expression and activity. The anti-PRAEP antibodies  
and antagonists may be used to prevent and treat cell proliferation  
disorders (e.g. cancer, arteriosclerosis and psoriasis), immunological  
disorders (e.g. acquired immunodeficiency syndrome (AIDS), multiple  
sclerosis and diabetes), reproductive disorders (e.g. polycystic ovary  
syndrome and ectopic pregnancy) and disorders of growth and development  
(e.g. gonadal dysgenesis and achondroplastic dwarfism).

Sequence 1905 BP; 365 A; 661 C; 576 G; 303 T; 0 other;

Query Match 98.3%; Score 1861.4; DB 22; Length 1905;  
Best Local Similarity 99.2%; Pred. No. 0;

	Matches 1871,	Conservative	0;	Mismatches	16;	Indels	0;	Gaps	0;
QY	1	gtctgattctctctccacgacatcttcctgacctctgcgtgtctccaatctgcccacagacc	60						
Db	15	gtctgattctctctccacgacatctctgtaacctctgcgtgtctccaatctgcccacagacc	74						
QY	61	agttctcccaagctctgtgtgcagactctccctgcgaagcccttcaggtttgggctctgcacggtg	120						
Db	75	agttctcccaagctctgtgtgcagactctccctgcgaagcccttcaggtttgggctctgcacggtg	134						
QY	121	ccagcagagcagacctctgtgcgtctgagggtaagggagactctccatacagagcagccagcccttgagac	180						
Db	135	ccagcagagcagacctctgtgcgtctgagggtaagggagactctccatacagagcagcccttgagac	194						
QY	181	gccacagccacacctctgagggctgagccagccccagatgagccaaactgagatgctgcctct	240						
Db	195	tcagagaggtccacacctctgagggctgagccagccccagagctgagccaaactgagatgctgcctct	254						
QY	241	ggcacagagccctctctgtgcacctgtgtcttcctgcgtcccccacaaatgactcgtggtctgagacagc	300						
Db	255	ggcacagagccctctctgtgcacctgtgtcttcctgcgtcccccacaaatgactcgtggtgagacagc	314						
QY	301	cagctgagctcagctgagccacacacctctcccgccctctgagagctgagcactgacagacagag	360						
Db	315	cagctgagctcagctgagccacacacctctcccgccctctgagagctgagcactgagacagagag	374						
QY	361	cttccctgtggagccacagagcacttaacagagacacacgccccagagcccaacagacagcgagatggg	420						
Db	375	cttccctgtggagccacagagcacttaacagagacacacgccccagagcccaacagacagcgagatggg	434						
QY	421	cagagccagagcccggtgtctgtagcagaggttatccccacagccacctctctgtgcctcccccagac	480						
Db	435	cagagccagagcccggtgtctgtagcagaggttatccccacagccacctctgtgcctcccccagac	494						
QY	481	gggtgtgcgcggagacagaggttttgagaaagacgagccgagccagctgagctctcgagagagacggga	540						
Db	495	gggtgtgcgcggagacagaggttttgagaaagacgagccgagccgagctgagctctcgagagagacggga	554						
QY	541	cttgagagctccacaggtccaccccgccacacgccccagagagagcctgtgccgcctcttgacactctcta	600						
Db	555	cttgagagctccacaggtccaccccgccacacgccccagagagagcctgtgccgcctcttgacactctcta	614						
QY	601	ctttgagacatgcttacctctgagaggaacagagctgtggctagagccaaagccccctgtggccagag	660						
Db	615	ctttgagacatgcttacctctgagaggaacagagctgtggctagagccaaagccccctgtggccagag	674						
QY	661	tcggagagagacacacctgagacacagccttgagagagatggccccgttatctgaacgcccacagccccagc	720						
Db	675	tcggagagagacacacctgagagagagcctgagagagatggccccgttatctgaacgcccacagccccagc	734						
QY	721	gggacacccctgagacttggttgccccgagcggtctgacactcttgagagagacactgcgtgagagagat	780						
Db	735	gggacacccctgagacttggttgccccgagcggtctgacactcttgagagagacactgcgtgagagagat	794						
QY	781	ggcaatccaatgtgtgtgtggcgaaagtgtctcaagagacatctgaagacgccccgtgcaagctgtgacaa	840						
Db	795	ggcaatccaatgtgtgtgtggcgaaagtgtctcaagagacatctgaagacgccccgtgcaagctgtgacaa	854						
QY	841	catcacccgacgatcccatctgagacttgagagccccacagacatgttgagaaagatggtctctgtgagac	900						
Db	855	catcacccgacgatcccatctgagacttgagagccccacagacatgttgagaaagatggtctctgtgagac	914						
QY	901	agagacacaaataacggctgtgcctcccccatactgggcaaaagccttccaagagctctggcggggcaaaagga	960						
Db	915	agagacacaaataacggctgtgcctcccccatactgggcaaaagccttccaagagctctggcggggcaaaagga	974						
QY	961	gctcttgagacacatgtcagagagagacagattcccgacagagctctcgccccctgggttgagagatgtgtct	1020						
Db	975	gctcttgagacacatgtcagagagagacagattcccgacagagctctcgccccctgggttgagagatgtgtct	1034						
QY	1021	gcaacgcccacactgagacatctgaaagtacagcggtctgatatgaagaacgagacttaacctg	1080						
Db	1035	gcaacgcccacactgagacatctgaaagtacagcggtctgatatgaagaacgagacttaacctg	1094						

QY	1081	ggcgattcactactctgctctgcgcagctgagagagctggaaccgacgagctgagctc	1140
Db	1095	ggcgattcactactctgctctgcgcagctgagagagctggaaccgacgagctgagctc	1154
QY	1141	atcagtctccgggcagcccatccacctctggagcttccctcccaaggagcttgcataacc	1200
Db	1155	atcagtctccgggcagcccatccacctctggagcttccctcccaaggagcttgcataacc	1214
QY	1201	ccaaagctatctgcgcgttccattctagctgctcacaagaaggaaaggccatctccaaatga	1260
Db	1215	ccaaagctatctgcgcgttccattctagctcacaagaaggaaaggccatctccaaatga	1274
QY	1261	ggactcagccccaagctgctccgcgtctgtgggcatccgcaagaaccgtcccgccaatga	1320
Db	1275	ggactcagccccaagctgctccgcgtctgtgggcatccgcaagaaccgtcccgccaatga	1334
QY	1321	cgacaagctctagcgcgtccctccatccgcgcagctcttaacaagaaggcatctccgcgaagccga	1380
Db	1335	cgacaagctctagcgcgtccctccatccgcgcagctcttaacaagaaggcatctccgcgaagccga	1394
QY	1381	catctcccaagcgcctcgtctacacagttcgtgcaccccatctgagctgctcggcccaaggcc	1440
Db	1395	catctcccaagcgcctcgtctacacagttcgtgcaccccatctgagctgctcggcccaaggcc	1454
QY	1441	tgaaacccggcccttcagaggcgctctctccgcgtccgcctccctcccaagcagcccttgaatg	1500
Db	1455	tgaaacccggcccttcagaggcgctctctccgcgtccgcctccctcccaagcagcccttgaatg	1514
QY	1501	ggggaaacagcgagctgctctctcgtctctgcaccttcacagacccaagctcagaggaggg	1560
Db	1515	ggggaaacagcgagctgctctctcgtctctgcaccttcacagacccaagctcagaggaggg	1574
QY	1551	gcaacccaactgccccaggggagataggtctctctgggccccttcgggaccaatgggcaagg	1620
Db	1575	gcaacccaactgccccaggggagataggtctctctgggccccttcgggaccaatgggcaagg	1634
QY	1621	gtgtcttctctctcaaggccagcgtctccctctggaggaagaaggagagacagggctctcc	1680
Db	1635	gtgtcttctctctcaaggccagcgtctccctctggaggaagaaggagagacagggctctcc	1694
QY	1681	caaacactgctctctgaccccaagcatctccagagacagcctccaaagagggcagctgactcg	1740
Db	1695	caaacactgctctctgaccccaagcatctccagagacagcctccaaagagggcagctgactcg	1754
QY	1741	acaaaggccacaaggcagctccaggcctctctctgctccatcccccgtcctccattctga	1800
Db	1755	acaaaggccacaaggcagctccaggcctctctctgctccatcccccgtcctccattctga	1814
QY	1801	ccaaacactgcatctgctcacaaggagacatctgcacccctcaatttggagcagccagagcttc	1860
Db	1815	ccaaacactgcatctgctcacaaggagacatctgcacccctcaatttggagcagccagagcttc	1874
QY	1861	cccggaatgagataataaagatactag	1887
Db	1875	cccggaatgagataataaagatactag	1901
RESULT 7			
ID	AAE21828 standard; DNA; 1087 BP.		
AC	AAE21828:		
XX			
DT	27-MAR-2001 (first entry)		
DE	Human breast and ovarian cancer associated antigen gene SEQ ID 215.		
XX			
KW	Human: breast cancer; ovarian cancer; cytosolic; immunosuppressive; neotropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antinflammatory; antitumor; vulnerable; anticonvulsant; antibacterial; antifungal; antiparasitic; cardiant; immune disorder; Addison's disease; allergy; autoimmune hemolytic anaemia;		
KW			

RESULT 7  
AAE21828  
ID AAE21828 standard; DNA; 1087 BP.  
XX  
AC AAE21828;  
XX  
DT 27-MAR-2001 (first entry)  
XX  
DE Human breast and ovarian cancer associated antigen gene SEQ ID 215.  
XX  
KW Human: breast cancer; ovarian cancer; cytostatic; immunosuppressive;  
KW neoplastic; neuroprotective; antiviral; antiallergic; hepatotropic;  
KW antidiabetic; antinflammatory; antitumor; vulnery; anticonvulsant;  
KW antibacterial; antifungal; antiparasitic; cardiact; immune disorder;  
KW Addison's disease; allergy; autoimmune hemolytic anaemia;



XX Key Location/Qualifiers  
FH CDS 362..1339  
FT /\*tag= a  
FT /product= "mouse esf"  
XX MO200157186-A2.  
XX 09-AUG-2001.  
XX 05-FEB-2001; 2001WO-US03640.  
XX 04-FEB-2000; 2000US-0180244.  
XX (MUSC-) MUSC FOUND RES DEV.  
XX Watson DK:  
XX WPI; 2001-465703/50.  
XX P-PSDB; AAB85610.  
XX Fragment of a human EMS suppressor factor protein for inhibiting the  
PT growth or proliferation of and/or inducing apoptosis of cancer cells,  
PT especially prostate, breast, colon or cervical cancer cells for  
PT treatment.  
XX Examples: Fig 1C; 94pp; English.  
XX The invention relates to methods for treating or preventing cancer by  
XX modifying the expression of EMS suppressor factor (esf) protein gene or  
XX the activity of the gene product. The esf protein or its modified form  
XX are useful for inhibiting the growth or proliferation of and/or inducing  
XX apoptosis of cancer cells, especially prostate, breast, colon or cervical  
XX cancer cells. They are useful for treating cancer in a subject when  
XX introduced in to the vicinity of the cancer in a subject. The methods  
XX provided are useful for inhibiting the specific degradation of esf  
XX protein in a cell; for diagnosing a preneoplastic or neoplastic condition  
XX in a human by e.g. PCR and for identifying a compound that inhibits the  
XX degradation of esf protein in cancer cells. The present sequence  
XX represents a mouse esf protein encoding cDNA.  
SQ Sequence 1704 BP; 369 A; 527 C; 491 G; 317 T; 0 other;

Query Match 39.0%; Score 738.4; DB 22; Length 1704;  
Best Local Similarity 73.3%; Pred. No. 4,4e-146;  
Matches 1061; Conservative 0; Mismatches 336; Indels 51; Gaps 7;  
QY 38 tgtccacactgtcccaacagcagctcctcaagctgtgcaagctcctgcaagcc 97  
DB 1 tgtccgctctgtcctccacacactagaccacccagccc--gctcgtgcccggtagaacc 58  
QY 98 tcaagttgagccttgccagagtgccagagcagccttgaggtgtgagggactcc 157  
DB 59 ccaagttgtgctgtctgtgagcagagtggtccctgaagcttctgacaggggctgc 118  
QY 158 tacagagcagcagccttgagacccacacaccccttgagggtggccagggcc 217  
DB 119 tatagacttgcaagccttgagc-----tcagactcaacactaaaggcctctg 174  
QY 218 tggcaacactgagtgctgtccttgcacacagcctgtgacctgtgtccgtgcccc 277  
DB 175 tggccacactaagagccacactgtgccacagcctgtgccccactat-----gtctg 228  
QY 278 ccaagtgctgtgagcagcagcagcagtgctcagctgtgcccacacacttccggccct 337  
DB 229 actgagacacagcagtgagc-----tgagctgtcctgtccacactgtccctctgtcc 283  
QY 338 ggaagttgagcagcagcagcagctcctgtgagcagcagcagcagcagcagcagc 397  
DB 284 gaggtgtgctctgtccgagagcagcagactcttctgaagcagggcggtctaaaggcagc 343  
QY 398 agcccaaacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 457

DB 344 ccaagctcccaacgcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 403  
QY 458 caactcctgctgccccccagacagcagtgctgcgagcagcagcagcagcagcagcagc 517  
DB 404 tgcctgtcactgtctccacagactgtgacacacagcagcagcagcagcagcagcagc 463  
QY 518 gcaagtgagcttcgcagagcagcagcagcagcagcagcagcagcagcagcagcagc 577  
DB 464 gcaatggcccttgagaaagcagagaaatgagctcagtcacacccgagcagcagcagc 523  
QY 578 ctgtcgccttcagacactcctactacttgcactgtgtacacccctgagacagcagcagc 637  
DB 524 ctgtcgtcttctactactctctactactaaaca---tgataccgcagcagtagcagctgtc 580  
QY 638 gccaaagcccttgagccagcagcagcagcagcagcagcagcagcagcagcagcagc 657  
DB 581 gccaaagctcccgagagcccgctgcgagcagcagcagcagcagcagcagcagcagc 640  
QY 698 gtcatgtgacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 757  
DB 641 gtcatgtgacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 673  
QY 758 gagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 817  
DB 674 gatagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 733  
QY 818 gagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 877  
DB 734 gagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 793  
QY 878 gtgcagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 937  
DB 794 gtgcagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 853  
QY 938 ttcacagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 997  
DB 854 ttcacagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 913  
QY 998 tgcacccctgtgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1057  
DB 914 gacacctgt 973  
QY 1058 atgaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1117  
DB 974 atgaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1033  
QY 1118 tggacgacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1177  
DB 1034 tggagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1093  
QY 1178 ctcaagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1237  
DB 1094 ctgaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1153  
QY 1238 gagaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1297  
DB 1154 gagaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1213  
QY 1298 aagaacgcgtcccgacatgaactgcagacagcagcagcagcagcagcagcagcagc 1357  
DB 1214 aagaacgcgtcccgacatgaactgcagacagcagcagcagcagcagcagcagcagc 1273  
QY 1358 aagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1417  
DB 1274 aagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1333  
QY 1418 atctgagctgc-----tggccagagcagcagcagcagcagcagcagcagcagcagc 1473  
DB 1334 gctctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1393  
QY 1474 gccctgtcc 1481  
111 111

Db 1394 gccctgctc 1401

RESULT 9  
AAH30613 standard; cDNA; 392 BP.

XX AAH30613;  
XX  
XX 27-JUL-2001 (first entry)  
XX  
XX Human colon cancer cell line Km12L4-A cDNA library derived sequence #547.  
DE  
XX  
XX Human; diagnosis: colon cancer; cancer; malignant; chromosome mapping;  
KW detection; colon cancer cell line Km12L4-A; ss.  
XX  
XX Homo sapiens.  
OS  
XX MO200018916-A2.  
PN  
XX 06-APR-2000.  
PD  
XX 23-SEP-1999; 99WO-US22226.  
PE  
XX 28-SEP-1998; 98US-0102161.  
PR 28-SEP-1998; 98US-0102180.  
PR 29-SEP-1998; 98US-0102380.  
PR 08-OCT-1998; 98US-0103815.  
PR 27-OCT-1998; 98US-0105877.  
XX  
XX (CHIR) CHIRON CORP.  
PA (HYSE-) HYSEQ INC.  
XX  
XX Williams LT, Escobedo J, Innis MA, Garcia PD, Sudduth-Klinger J;  
PI Reinhard C, Giese K, Randazzo F, Kennedy GC, Pot D, Kassam A;  
PI Lamson G, Drmanac R, Dickson M, Drmanac S, Labat I;  
PI Leshkowitz D, Kila D, Garcia V, Jones LW, Stache-Crain B;  
DR WPI; 2000-293155/25.  
XX  
XX Polynucleotide library comprising 1079 defined sequences, useful in  
PT the form of an array to detect cancer or susceptibility to cancer -  
XX  
XX Claim 1; Page 340; 502pp; English.

The present invention describes a library of polynucleotides comprising 1079 nucleotide sequences (given in AAH3067 to AAH31145). Also described are: (1) an isolated polynucleotide (I) having at least 90% identity to one of the 1079 sequences; (2) a recombinant host cell containing (I); (3) an isolated polypeptide (II) encoded by (I); (4) an antibody that specifically binds to (II); (5) a vector comprising (I); and (6) a method of detecting differentially expressed genes correlated with a cancerous state of a mammalian cell comprising detecting a gene product encoded by 65 of the 1079 sequences given in the specification. The polynucleotides are used to monitor patients having (or susceptible) to cancer to detect potentially malignant events at a molecular level before they are detectable at a gross morphological level. The polynucleotides are also useful for monitoring the efficacy of various therapies and preventive interventions. Polynucleotide probes based on the disclosed sequences are useful for chromosome mapping and detection of transcription levels. The 1079 polynucleotide sequences were derived from a human colon cancer cell line Km12L4-A cDNA library.

Sequence 392 BP; 82 A; 119 C; 126 G; 65 T; 0 other;

Query Match 20.6%; Score 391; DB 21; Length 392;  
Best Local Similarity 100.0%; Fred. No. 3.9e-73;  
Matches 391; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 799 cgaagtcctcaagacatcgaagcgcctcgaagtcctcaacatccgcagatcccat 858  
|||||  
Db 1 cgaagtcctcaagacatcgaagcgcctcgaagtcctcaacatccgcagatcccat 60

QY 859 ggaactgagcccccagcaatgtcagaagtggctcctgtggaagagaccataaccgct 918  
Db 61 ggaactgagcccccagcaatgtcagaagtggctcctgtggaagagaccataaccgct 120  
QY 919 gcccccattggcaagcctcccaagagctgctgagcgaagagctgtgccaatgtcga 978  
Db 121 gcccccattggcaagcctcccaagagctgctgagcgaagagctgtgccaatgtcga 180  
QY 979 ggaagatcccccagcagctgcccctgggtggatgtgtctgcgaagccacattgact 1038  
Db 181 ggaagatcccccagcagctgcccctgggtggatgtgtctgcgaagccacattgact 240  
QY 1039 ctggaatcagcgcctggaatgaagaagcgaacttcacccctggggcgaactcactgtgc 1098  
Db 241 ctggaatcagcgcctggaatgaagaagcgaacttcacccctggggcgaactcactgtgc 300  
QY 1099 ctgcaccagtgaggaagctggaaccagcgaagtggaactatcatgtctcggcagcc 1158  
Db 301 ctgcaccagtgaggaagctggaaccagcgaagtggaactatcatgtctcggcagcc 360  
QY 1159 catccactgtggaagtcctcctcaaggagtgtg 1189  
Db 361 catccactgtggaagtcctcctcaaggagtgtg 391

RESULT 10  
AAC77746  
ID AAC77746 standard; cDNA; 427 BP.  
XX  
XX AAC77746;  
AC  
XX  
XX 08-FEB-2001 (first entry)  
DT  
XX  
DE Human cancer associated gene sequence SEQ ID NO:140.

XX Human; cancer associated gene; cancer antigen; detection; cancer;  
KW diagnosis; cytostatic; proliferative; vulnerability; immunomodulator;  
KW antidiabetic; antihistaminic; antirheumatic; antiallergic; antiviral;  
KW antiinflammatory; antithyroid; antiallergic; antibacterial; cardiant;  
KW dermatological; neuroprotective; thrombolytic; coagulant; noctropic;  
KW vasotropic; antiproliferative; antianagenic; gene therapy; inflammation;  
KW immune disorder; hematopoietic cell disorder; autoimmune disorder;  
KW allergic reaction; graft versus host disease; organ rejection;  
KW hemostatic; thrombolytic; cardiovascular disorder; infection;  
KW neurological disease; drug screening; ss.

XX  
XX Homo sapiens.  
OS  
XX  
XX MO200055350-A1.  
FN  
XX  
XX 21-SEP-2000.  
PD  
XX  
XX 08-MAR-2000; 2000WO-US05882.  
PE  
XX  
XX 12-MAR-1999; 99US-0124270.  
PR  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
PA  
XX  
XX Rosen CA, Ruben SM;  
PI WPI; 2000-587533/55.  
PI  
XX  
XX P-PSDB; AAB43537.  
DR  
XX  
XX Novel isolated nucleic acids comprising sequences encoding peptides  
PT useful for treating or diagnosing e.g. cancer -  
XX  
XX  
XX Claim 1; Page 720-721; 2352pp; English.

AAC77607 to AAC78448 encode the human cancer associated proteins given in AAB43398 to AAB44239. The proteins can have activities based on the tissues and cells the genes are expressed in. Example of activities include: cytostatic; proliferative; vulnerability; immunomodulator;



```
Db      1699  cagtgccctcagctgcacacactctccgcgcctgaagtgcacgcag 1751
|||||
RESULT 12
AAA06617
ID      AAA06617 standard; cDNA; 278 BP.
XX
AC      AAA06617;
XX
DT      13-JUN-2000 (first entry)
XX
DE      Human immunogenic prostate tumour protein cDNA sequence SEQ ID NO:398.
XX
KW      Human; prostate cancer; diagnosis; tumour; gene therapy; detection;
XX      immunogenic; cytostatic; vaccine; ss.
XX
OS      Homo sapiens.
XX
PN      WO200004149-A2.
XX
PD      27-JAN-2000.
XX
PF      14-JUL-1999; 99WO-US15838.
XX
PR      14-JUL-1998; 98US-0115453.
XX      14-JUL-1998; 98US-0116134.
XX      23-SEP-1998; 98US-0159812.
XX      23-SEP-1998; 98US-0159822.
XX      15-JAN-1999; 99US-0232149.
XX      15-JAN-1999; 99US-0232880.
XX      09-APR-1999; 99US-0288946.
XX
PA      (CORI-) CORIXA CORP.
XX
PI      Dillon DC, Harlocker SL, Yugu J, Xu J, Mitcham JL;
XX
DR      WPI; 2000-171268/15.
XX
PT      New polypeptide useful for treating and diagnosing prostate cancer
XX      comprises an immunogenic portion of prostate tumor protein -
XX
PS      Claim 50; Page 239; 263pp; English.
XX
CC      The present invention describes isolated polypeptides, comprising an
XX      immunogenic portion of a prostate tumour protein (PTP). The polypeptides
XX      and polynucleotides encoding them have cytostatic activity and can be
XX      used in vaccines and in gene therapy. The polypeptides and
XX      polynucleotides encoding them, antigen presenting cells which express
XX      the polypeptides, antibodies against the polypeptides and vaccines
XX      comprising them can be used for inhibiting the development of prostate
XX      cancer in a patient. The polypeptides can be used to generate antibodies
XX      or anti-idiotypic antibodies for passive immuno therapy. A portion of
XX      the polynucleotides encoding the polypeptides can be used as a probe or
XX      to modulate the expression of the polypeptides. AAA06241 to AAA06691 and
XX      CC      AA82000 to AA82020 represent sequences used in the exemplification of
XX      the present invention.
XX
SQ      Sequence 278 BP; 56 A; 85 C; 87 G; 49 T; 1 other;
XX
Query Match 13.9%; Score 263; DB 21; Length 278;
Best Local Similarity 99.6%; Pred. No. 3e-46;
Matches 263; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy      981  agcagtcgccgcagcgtgcctccctgggtggtgagatgtgcacgcccaccctgaacatc 1040
|||||
Db      15  agcagtcgccgcagcgtgcctccctgggtggtgagatgtgcacgcccaccctgaacatc 74
|||||
Oy      1041 ggaagtcagcgcgcctgcataaagcgcgactcacctggggcgatcactactgtgcct 1100
|||||
Db      75  ggaagtcagcgcgcctgcataaagcgcgactcacctggggcgatcactactgtgcct 134
|||||
```

```
Oy      1101 cgaccagtcgagagagagctgcacccgacagcaggtggtgactcaatcgtctcgggacccca 1160
|||||
Db      135  cgaccagtcgagagagctgcacccgacagcaggtggtgactcaatcgtctcgggacccca 194
|||||
Oy      1161 tccacctgtggcaofttccctcaagaggtgtcactcaagcccacagctatgcccgttca 1220
|||||
Db      195  tccacctgtggcaofttccctcaagaggtgtcactcaagcccacagctatgcccgttca 254
|||||
Oy      1221 ttaagtcgctcaacaagaagaag 1244
|||||
Db      255  ttangtcgctcaacaagaagaag 278
|||||
RESULT 13
AAS63826
ID      AAS63826 standard; cDNA; 278 BP.
XX
AC      AAS63826;
XX
DT      29-JAN-2002 (first entry)
XX
DE      Human cDNA encodingEts transcription factor PDEF.
XX
KW      Human; prostate cancer; ss; cytostatic; immunostimulant; tumour.
XX
OS      Homo sapiens.
XX
PN      WO200173032-A2.
XX
PD      04-OCT-2001.
XX
PF      27-MAR-2001; 2001WO-US09919.
XX
PR      27-MAR-2000; 2000US-0536857.
XX      09-MAY-2000; 2000US-0568100.
XX      12-MAY-2000; 2000US-0570737.
XX      13-JUN-2000; 2000US-0593793.
XX      27-JUN-2000; 2000US-0605783.
XX      10-AUG-2000; 2000US-0636215.
XX      29-AUG-2000; 2000US-0651236.
XX      06-SEP-2000; 2000US-0657279.
XX      02-OCT-2000; 2000US-0679426.
XX      10-OCT-2000; 2000US-0685166.
XX
PA      (CORI-) CORIXA CORP.
XX
PI      Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;
XX      Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D;
XX      Li SX, Wang A, Sketky YAM, Hepler WT, Henderson RA;
XX
DR      WPI; 2001-639232/73.
XX
PT      New human prostate-specific polypeptides and polynucleotides useful for
XX      the diagnosis and treatment of cancer, especially prostate cancer -
XX
PS      Claim 1; Page 364-365; 579pp; English.
XX
CC      The invention relates to isolated prostate-specific
XX      polynucleotides, polypeptides, fusion proteins of the polypeptides,
XX      antibodies raised against the polypeptides (or antigenic epitopes
XX      derived from them) and antigen-presenting cells expressing the
XX      polypeptides. The antibodies are useful for detecting the presence of
XX      cancer, especially prostate cancer. The polypeptides, polynucleotides and
XX      the antigen-presenting cells are useful for stimulating and/or expanding
XX      T cells specific for a tumour protein, and for inhibiting the development
XX      of cancer especially prostate cancer. Compositions comprising the
XX      polynucleotide and/or polypeptide are useful for stimulating an immune
XX      response, and for treating cancer. The oligonucleotide is useful for
XX      detecting cancer. The present sequence is a prostate specific
XX      polynucleotide of the invention.
XX
SQ      Sequence 278 BP; 56 A; 85 C; 87 G; 49 T; 1 other;
```







GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 18:17:31 ; Search time 3380.83 Seconds

(Without alignments)  
12120.248 Million cell updates/sec

Title: US-09-841-963a-1

Perfect score: 1894  
Sequence: 1 gtcgtacttcctccagcac.....ataaagatactagagactg 1894

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 21979536 seqs, 10817449327 residues

Total number of hits satisfying chosen parameters: 43959072

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Listing first 45 summaries

Pending Patents\_NA\_Main:\*

1: /cgn2\_6/prodata/2/pna/PCTUS\_COMB.seq.\*  
2: /cgn2\_6/prodata/2/pna/US06\_COMB.seq.\*  
3: /cgn2\_6/prodata/2/pna/US07\_COMB.seq.\*  
4: /cgn2\_6/prodata/2/pna/US08\_COMB.seq.\*  
5: /cgn2\_6/prodata/2/pna/US081\_COMB.seq.\*  
6: /cgn2\_6/prodata/2/pna/US082\_COMB.seq.\*  
7: /cgn2\_6/prodata/2/pna/US083\_COMB.seq.\*  
8: /cgn2\_6/prodata/2/pna/US084\_COMB.seq.\*  
9: /cgn2\_6/prodata/2/pna/US085\_COMB.seq.\*  
10: /cgn2\_6/prodata/2/pna/US086\_COMB.seq.\*  
11: /cgn2\_6/prodata/2/pna/US087\_COMB.seq.\*  
12: /cgn2\_6/prodata/2/pna/US088\_COMB.seq.\*  
13: /cgn2\_6/prodata/2/pna/US089\_COMB.seq.\*  
14: /cgn2\_6/prodata/2/pna/US090\_COMB.seq.\*  
15: /cgn2\_6/prodata/2/pna/US091\_COMB.seq.\*  
16: /cgn2\_6/prodata/2/pna/US092\_COMB.seq.\*  
17: /cgn2\_6/prodata/2/pna/US093\_COMB.seq.\*  
18: /cgn2\_6/prodata/2/pna/US094\_COMB.seq.\*  
19: /cgn2\_6/prodata/2/pna/US095A\_COMB.seq.\*  
20: /cgn2\_6/prodata/2/pna/US095B\_COMB.seq.\*  
21: /cgn2\_6/prodata/2/pna/US095C\_COMB.seq.\*  
22: /cgn2\_6/prodata/2/pna/US095D\_COMB.seq.\*  
23: /cgn2\_6/prodata/2/pna/US096A\_COMB.seq.\*  
24: /cgn2\_6/prodata/2/pna/US096B\_COMB.seq.\*  
25: /cgn2\_6/prodata/2/pna/US096C\_COMB.seq.\*  
26: /cgn2\_6/prodata/2/pna/US096D\_COMB.seq.\*  
27: /cgn2\_6/prodata/2/pna/US096E\_COMB.seq.\*  
28: /cgn2\_6/prodata/2/pna/US097A\_COMB.seq.\*  
29: /cgn2\_6/prodata/2/pna/US097B\_COMB.seq.\*  
30: /cgn2\_6/prodata/2/pna/US097C\_COMB.seq.\*  
31: /cgn2\_6/prodata/2/pna/US098A\_COMB.seq.\*  
32: /cgn2\_6/prodata/2/pna/US098B\_COMB.seq.\*  
33: /cgn2\_6/prodata/2/pna/US098C\_COMB.seq.\*  
34: /cgn2\_6/prodata/2/pna/US099A\_COMB.seq.\*  
35: /cgn2\_6/prodata/2/pna/US099B\_COMB.seq.\*  
36: /cgn2\_6/prodata/2/pna/US099C\_COMB.seq.\*  
37: /cgn2\_6/prodata/2/pna/US100\_COMB.seq.\*  
38: /cgn2\_6/prodata/2/pna/US101\_COMB.seq.\*  
39: /cgn2\_6/prodata/2/pna/US6000\_COMB.seq.\*  
40: /cgn2\_6/prodata/2/pna/US6001\_COMB.seq.\*  
41: /cgn2\_6/prodata/2/pna/US6002\_COMB.seq.\*  
42: /cgn2\_6/prodata/2/pna/US6003\_COMB.seq.\*  
43: /cgn2\_6/prodata/2/pna/US6004\_COMB.seq.\*

Result No.	Score	Query Match %	Length	ID	Description
1	1894	100.0	1894	1 PCT-US01-03640-1	Sequence 1, App11
2	1894	100.0	1894	32 US-09-841-963a-1	Sequence 1, App11
3	1870	98.7	1894	1 PCT-US99-17470-1	Sequence 1, App11
4	1870	98.7	1894	15 US-09-126-945-1	Sequence 1, App11
5	1870	98.7	1894	15 US-09-126-945A-1	Sequence 1, App11
6	1870	98.7	1894	15 US-09-126-945B-1	Sequence 1, App11
7	1870	98.6	1894	22 US-09-570-593-1	Sequence 1, App11
8	1868.4	98.6	1902	14 US-09-064-645-14	Sequence 14, App1
9	1868.4	98.6	1902	14 US-09-064-645-15	Sequence 15, App1
10	1868.4	98.6	1902	22 US-09-567-970-14	Sequence 14, App1
11	1868.4	98.6	1902	22 US-09-567-970-15	Sequence 15, App1
12	1868.4	98.6	1918	28 US-09-718-159-1	Sequence 1, App1
13	1865.2	98.3	3317	22 US-09-570-593-12	Sequence 12, App1
14	1861.4	98.3	1905	33 US-09-866-305-7	Sequence 2, App11
15	1837.8	97.0	1907	59 US-60-209-009-74	Sequence 74, App1
16	1824.4	96.3	1916	56 US-60-172-373-4734	Sequence 12, App1
17	1803	95.2	1841	12 US-08-845-995-12	Sequence 215, App
18	1019.8	53.8	1087	1 PCT-US00-05881-215	Sequence 215, App
19	1019.8	53.8	1087	34 US-09-925-298-215	Sequence 215, App
20	790.6	41.7	1188	59 US-60-209-009-75	Sequence 75, App1
21	790.6	41.7	1188	71 US-60-324-187-16637	Sequence 11811, A
22	755.2	39.9	1701	75 US-60-360-207-11811	Sequence 3, App11
23	626.4	33.1	1704	1 PCT-US01-03640-3	Sequence 3, App11
24	626.4	33.1	1704	32 US-09-841-963a-3	Sequence 840, App
25	484.8	25.6	792	14 US-09-016-434-840	Sequence 2777, App
26	459.4	24.3	478	25 US-09-644-869-2777	Sequence 2650, App
27	459.4	24.3	478	25 US-09-649-163-2650	Sequence 20568, A
28	434.6	22.9	609	20 US-09-535-897-20568	Sequence 87128, A
29	425	22.4	450	35 US-09-528-409-87128	Sequence 87128, A
30	425	22.4	450	35 US-09-933-524-87128	Sequence 87128, A
31	425	22.4	450	35 US-09-933-524A-87128	Sequence 87128, A

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

33	418	22.1	442	19	US-09-528-409-84444	Sequence	84444, A
33	418	22.1	442	35	US-09-933-524-84444	Sequence	84444, A
34	418	22.1	442	35	US-09-933-524A-84444	Sequence	84444, A
35	416.6	22.0	457	16	US-09-340-371-5588	Sequence	5588, Ap
35	416.6	22.0	457	16	US-09-377-221-20468	Sequence	20468, Ap
36	416.6	22.0	457	34	US-09-919-627-20468	Sequence	20468, A
37	416.6	22.0	457	34	US-09-528-409-84270	Sequence	84270, A
38	416.6	22.0	457	34	US-09-919-724-5588	Sequence	5588, Ap
39	416.2	22.0	453	19	US-09-528-409-84270	Sequence	84270, A
40	416.2	22.0	453	35	US-09-933-524-84270	Sequence	84270, A
41	416.2	22.0	453	35	US-09-933-524A-84270	Sequence	84270, A
42	415.6	21.9	463	16	US-09-293-972-7218	Sequence	7218, Ap
43	415.6	21.9	463	34	US-09-504-933-7218	Sequence	7218, Ap
44	414.4	21.9	437	19	US-09-528-409-68832	Sequence	68832, A
45	414.4	21.9	437	35	US-09-933-524-68832	Sequence	68832, A

## ALIGNMENTS

```

RESULT 1
PCT-US01-03640-1
: Sequence 1, Application PC/TUS0103640
: GENERAL INFORMATION:
: APPLICANT: MUSC Foundation for Research Development
: TITLE OF INVENTION: Methods and compositions for the diagnosis and treatment of cancer
: TITLE OF INVENTION: based on ESF
: FILE REFERENCE: 9175-015-228
: CURRENT APPLICATION NUMBER: PCT/US01/03640
: CURRENT FILING DATE: 2001-02-09
: NUMBER OF SEQ ID NOS: 6
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 1
: LENGTH: 1894
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (416)..(1423)
PCT-US01-03640-1

```

[illegible]

QY	421	caagcgcaagcccgagctctctgaagagcgatccccccagccacactccgctctgcgcccccgagac	480
Db	421	caagcgcaagcccgagctctctgaagagcgatccccccagccacactccgctctgcgcccccgagac	480
QY	481	ggtctcgcgagcaagctcttgagagaaagctgcgaagcgaggtgcagttctgcagagagcagga	540
Db	481	ggtctcgcgagcaagctcttgagagaaagctgcgaagcgaggtgcagttctgcagagagcagga	540
QY	541	ctggaggtcccaagtccaaaccggccaaagcgagctgtccgcctcttcgaacctctcta	600
Db	541	ctggaggtcccaagtccaaaccggccaaagcgagctgtccgcctcttcgaacctctcta	600
QY	601	cttgagacatgctgtacacctctgaagacacagctgcggccaaagcgcccccttgagcgag	660
Db	601	cttgagacatgctgtacacctctgaagacacagctgcggccaaagcgcccccttgagcgag	660
QY	661	tcggagagagagcaacacttgacacagctctgaagctgtcccggtcattctgaacgaagccccagc	720
Db	661	tcggagagagagcaacacttgacacagctctgaagctgtcccggtcattctgaacgaagccccagc	720
QY	721	ggagacacctggaactgtgtgcgcggcgaggtcttgacaccttgagagagacatctgcctgagagct	780
Db	721	ggagacacctggaactgtgtgcgcggcgaggtcttgacaccttgagagagacatctgcctgagagct	780
QY	781	gcaatcccaatgtgtgtgtgtgcgaagtgctccaagagacalcgaagacagctctgcaagctgtctaa	840
Db	781	gcaatcccaatgtgtgtgtgtgtgcgaagtgctccaagagacalcgaagacagctctgcaagctgtctaa	840
QY	841	catcaacggcaaatcccaatctgagactctggagggcccaagcaatgtgcagaaagtgtgcctctgtgagc	900
Db	841	catcaacggcaaatcccaatctgagactctggagggcccaagcaatgtgcagaaagtgtgcctctgtgagc	900
QY	901	agagacacaaatacacaggtctgcgcccccaacacacacacacacacacacacacacacacacacac	960
Db	901	agagacacaaatacacaggtctgcgcccccaacacacacacacacacacacacacacacacacacac	960
QY	961	gctctgtgcgcacatgtctcggagagagagattccggcaagggcttcggcccccttgagggttgagttgct	1020
Db	961	gctctgtgcgcacatgtctcggagagagagattccggcaagggcttcggcccccttgagggttgagttgct	1020
QY	1021	gcaacgcccccaatctgagacalcctgcgaagctccagctgcgctctgagacagagcgagactctcaactgtg	1080
Db	1021	gcaacgcccccaatctgagacalcctgcgaagctccagctgcgctctgagacagagcgagactctcaactgtg	1080
QY	1081	ggcgagcttaactactgtctgcctccgacacagctgagagagagctgtgacacggacacaggtgcgactc	1140
Db	1081	ggcgagcttaactactgtctgcctccgacacagctgagagagagctgtgacacggacacaggtgcgactc	1140
QY	1141	atcatagtctccggcgagagcccaatcccaactgtgcaggtctccccaagagaggtgtgctataccaagcc	1200
Db	1141	atcatagtctccggcgagagcccaatcccaactgtgcaggtctccccaagagaggtgtgctataccaagcc	1200
QY	1201	ccaacagctatgtgcggtctcaattaggtgtgtctcaacaaagagaaaggtcatcttcaaaatttga	1260
Db	1201	ccaacagctatgtgcggtctcaattaggtgtgtgtctcaacaaagagaaaggtcatcttcaaaatttga	1260
QY	1261	ggagctcaacacaaagtgtgcgcggctgcgtgtgaggtcatalccgcaaaagacgcgtcccgccaagaaactgt	1320
Db	1261	ggagctcaacacaaagtgtgcgcggctgcgtgtgaggtcatalccgcaaaagacgcgtcccgccaagaaactgt	1320
QY	1321	cgacaagagctgtgcgcgctcccaatccgcaagctcttaacaaagagaggtcatcatccggaagcaga	1380
Db	1321	cgacaagagctgtgcgcgctcccaatccgcaagctcttaacaaagagaggtcatcatccggaagcaga	1380
QY	1381	caatctcccaagcgctctgtcttaaccaagtctgtgcaccccccatctgtaggtgtgcctgcgacgggccc	1440
Db	1381	caatctcccaagcgctctgtcttaaccaagtctgtgcaccccccatctgtaggtgtgcctgcgacgggccc	1440
QY	1441	tgaaaacggcgctctgaagggcctctctctctctctctctctctctctctctctcaagcagagcccttgaagtgtg	1500
Db	1441	tgaaaacggcgctctgaagggcctctctctctctctctctctctctctctctctcaagcagagcccttgaagtgtg	1500
QY	1501	ggggagaaacggcgagctgtgtctctgtctgtctcttcgaaccttcaagagcccaaggtcagagggaggg	1560

Db	1501	g g g g a a a a g g g c a g t g t c t c g c t c g c t c g a c t t c c a g a g c c c a a g g t c a a g g a a g g	1560
Qy	1561	g c a a c c a a c t g c c c c a g a g g g a t a t g g t c t c t c t g g c t t c g a c t c g a a c a t g a g g c a a g g	1620
Db	1561	g c a c a c c a a c t g c c c c a g a g g g a t a t g g t c t c t c t g g c t t c g a c t c g a a c a t g a g g c a a g g	1620
Qy	1621	g t g t t c t c t c t c a a g g c c a g c t g t c t c c c c t g a g a c a g a a g a g a g a a g g c t g t c t c c	1680
Db	1621	g t g t c t c t c t c t c c a g c c c a g c t g c t c c c c t g a g a c a g a a g a g a a g a a g g c t g t c t c c	1680
Qy	1681	c a a a c a c t g c c t c t g a c c c c a c a t t c c a g a g a c t c a a g a c t c a a a a g g c a g t g a c t g c	1740
Db	1681	c a a c a c t g c c t c t g a c c c c a c a t t c c a g a g a c a g a c t a c a g a a g g c a g t g a c t g c	1740
Qy	1741	a c a a a g g c c a a a g g c a g t c c a g g c t c t c t g t c t c a t c c c c t g c t c c c a t t c g c a	1800
Db	1741	a c a a a g g c c a a a g g c a g t c c a g a g c t c t c t c t c a t c c a t c c c c t g c t c c c a t t c g c a	1800
Qy	1801	c c a a c a c t g c a t g t g c a a g a g a g a c a t c t g c a c c c c t a g t t g g c a g c c a g a g a t g c c	1860
Db	1801	c c a c a c c t g a t g t g c a g g a g a g a c a t c t g c a c c c c t a g t t g g c a g c c a g a g a t g c c	1860
Qy	1861	c c c g g a a t g a t a t a a a g a t a c t c t a g a a c t g	1894
Db	1861	c c c g g a a t g a t a t a a a g a t a c t c t a g a a c t g	1894

```

RESULT 2
US-09-841-963A-1
; Sequence 1, Application US/09841963A
; GENERAL INFORMATION:
; APPLICANT: Watson, Dennis K.
; APPLICANT: Papas, Takis S. (Deceased)
; APPLICANT: Papas, Tula C. (Legal Representative)
; TITLE OF INVENTION: Methods and compositions for the diagnosis and treatment of cancer
; FILE REFERENCE: 10545-015-999
; CURRENT APPLICATION NUMBER: US/09/841,963A
; CURRENT FILING DATE: 2001-04-25
; PRIOR APPLICATION NUMBER: PCT/US99/27805
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: 06/109,850
; PRIOR FILING DATE: 1998-11-25
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 1894
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (416)..(1423)
US-09-841-963A-1

```

Query Match	100.0%;	Score 1894;	DB 32;	Length 1894;
Best Local Similarity	100.0%;	Pred. NO. 0;		
Matches 1894; Conservative	0;	Mismatches	0;	Gaps 0;

QY 1 gtctgaactctccagacacattcctgacctgcgctgcaacactgcccacagacc 60  
db 1 gtctgaactctccacagacacattcctgacctgcgctgcaacactgcccacagacc 60  
QY 61 agctctccaagcctgcgctgcagctccctctgcaagccctctcaggtcttgccaaagctg 120  
Db 61 agctctccaagcctgcgctgcagctccctctgcaagccctctcaggtcttgccaaagctg 120  
QY 121 ccagagagcagacccctgcgctgcgctggtggtgaggtaccccttaagacagcagcccttgagac 180  
Db 121 ccagagagcagacccctgcgctgcgctggtggtgaggtaccccttaagacagcagcccttgagac 180  
QY 181 gccacacagccacccctctagaggtctgaccagcccccacatgccaacctgaatgtgcctct 240

Db	181	gcaacacagccacccctctgaaaggctgacacagcccccagctgagccaaactcgaatgctgacccct	240
QY	241	gcaacacagccctgcttgagccccccttgcttcacgctctgagcccccagaaatgacctgctctgaagacacgc	300
Db	241	gcaacacagccctgcttgagccccccttgcttcacgctctgagcccccagaaatgacctgctctgaagacacgc	300
QY	301	caatgctgacctagctctgacccaaactcttcacgcccctctgagcttgagctgaactgacagacag	360
Db	301	caatgctgacctagctctgacccaaactcttcacgcccctctgagcttgagctgaactgacagacag	360
QY	361	ctccctctggcaacacagggacgttaacagacacagacgcgcacgcccacaaacagacagcgagatgg	420
Db	361	ctccctctggcaacacagggacgttaacagacacagacgcgcacgcccacaaacagacagcgagatgg	420
QY	421	caagctgcagaccgcgggtctctgaagcagctatccccacagccactctcctctgctctgccccccgagac	480
Db	421	caagctgcagaccgcgggtctctgaagcagctatccccacagccactctcctctgctctgccccccgagac	480
QY	481	gggtctgcgcgaacaaagcctctggaagaagacgcgagagagggaggaatgggtcttcagagaagacggga	540
Db	481	gggtctgcgcgaacaaagcctctggaagaagacgcgagagagggaggaatgggtcttcagagaagacggga	540
QY	541	ctggagctcccaagctccaccccgccacgcgcgacagcgagcctgtctccgctcttcgaactctcccta	600
Db	541	ctggagctcccaagctccaccccgccacgcgcgacagcgagcctgtctccgctcttcgaactctcccta	600
QY	601	ctttggaacatgctgtacccctctgaaggacagcgatggtgcagccaaagcccccctggggccagacg	660
Db	601	ctttggaacatgctgtacccctctgaaggacagcgatggtgcagccaaagcccccctggggccagacg	660
QY	661	tcgggagagagacacactctgaacccagcctctgacgctgccccggtctcatctgaacagacacagcccccgc	720
Db	661	tcgggagagagacacactctgaacccagcctctgacgctgccccggtctcatctgaacagacacagcccccgc	720
QY	721	gggcaaccccttggaactggctgcccgcgggctctgaaccttgagagagacactgcctgagagagct	780
Db	721	gggcaaccccttggaactggctgcccgcgggctctgaaccttgagagagacactgcctgagagagct	780
QY	781	gcaatcccaatgtgtgtgtggtgcgaagaatgtgctcaagagacatctgaagacgcctctgaaagtctctcaa	840
Db	781	gcaatcccaatgtgtgtgtggtgcgaagaatgtgctcaagagacatctgaagacgcctctgaaagtctctcaa	840
QY	841	catcaacgcgaaatcccaatgaaactctgagacgtcccaacaaatgctgacgaagaagtgtgctctctgtgagc	900
Db	841	catcaacgcgaaatcccaatgaaactctgagacgtcccaacaaatgctgacgaagaagaagtgtgctctctgtgagc	900
QY	901	agagacacacaaataacccggctgtgcaccccccacatggtgcaaaagcctcttcacagtgagctctgcgggcaaaaga	960
Db	901	agagacacacaaataacccggctgtgcaccccccacatggtgcaaaagcctcttcacagtgagctctgcgggcaaaaga	960
QY	961	gctctgtgcgcacatgtctcggaagagacgttccgcgcacgcctcgcctctgggtggatgtgct	1020
Db	961	gctctgtgcgcacatgtctcggaagagacgttccgcgcacgcctcgcctctgggtggatgtgct	1020
QY	1021	gcaacgcccacacttggaactctggaagtctagcgcctgtgatatgaagaagacgcgaactccaacttg	1080
Db	1021	gcaacgcccacacttggaactctggaagtctagcgcctgtgatatgaagaagacgcgaactccaacttg	1080
QY	1081	ggcgatctaacactgtgctcttcgaacacgtgagagagacgtctgaacacgaagaagaggtgagatctc	1140
Db	1081	ggcgatctaacactgtgctcttcgaacacgtgagagagacgtctgaacacgaagaagaggtgagatctc	1140
QY	1141	atcatgctccggggagcgcacatccaactgtgagcagctctctccaaggaagtctgctctcaagcc	1200
Db	1141	atcatgctccggggagcgcacatccaactgtgagcagctctctccaaggaagtctgctctcaagcc	1200
QY	1201	ccaaagcctatggccgctctcaatlttaggtgtgctctcaacaaaggagaaggagcattcttaaaatgtga	1260
Db	1201	ccaaagcctatggccgctctcaatlttaggtgtgctctcaacaaaggagaaggagcattcttaaaatgtga	1260
QY	1261	ggacttcacacaaagtgtgcgcgggtctgtcttggtgcataccgcgaagaacgcgtccgcgcacataaactg	1320

D	b	1261	ggrtccagcccaagtgccgcgggtgtgtgggcatctccgcaagaacccgtccgcgcatagaaactg	1320
Q	y	1321	cgaacaagctgagccgcctccatctccgcagctcttacaagaagggcatcatctccggaagccaga	1380
D	b	1321	cgacaagactgagccgcctccatctccgcagctcttacaagaagggcatcatctccggaagccaga	1380
Q	y	1381	catctcccaagcgcctgtctctcaacagttctgtgaaccccatctgagtgcccttgcccaaggcc	1440
D	b	1381	catctcccaagcgcctgtctctcaacagttctgtgaaccccatctgagtgcccttgcccaaggcc	1440
Q	y	1441	tgaaacccgcgcctccaaagggtccctctccctccgcctgcccctcccaagcccaagccctgaagatg	1500
D	b	1441	tgaaacccgcgcctccaaagggtccctctccctccgcctgcccctcccaagcccaagccctgaagatg	1500
Q	y	1501	ggggaaaaacgggcagtgctgtctgtctctgtacatcttccagaagcccaagtcgaaggaggg	1560
D	b	1501	ggggaaaaacgggcagtgctgtctgtctctgtacatcttccagaagcccaagtcgaaggaggg	1560
Q	y	1561	gcacaacaaatgcgcgcacaaggagataatgggtccctctggggtccctccaggaacatctgggccaagg	1620
D	b	1561	gcacaacaaatgcgcgcacaaggagataatgggtccctctggggtccctccaggaacatctgggccaagg	1620
Q	y	1621	gtgtctctctctccagggcccaagctgcccctctggagagcaagagggagacaaggctgtctccc	1680
D	b	1621	gtgtctctctctccagggcccaagctgcccctctggagagcaagagggagacaaggctgtctccc	1680
Q	y	1681	caaacactgcctctgacccagcagatcttccagaagcagaagctctacaagaagggcagtgaaactg	1740
D	b	1681	caaacactgcctctgacccagcagatcttccagaagcagaagctctacaagaagggcagtgaaactg	1740
Q	y	1741	acaaagggccacaagccagttccagagccctctctgtctccatcccccctgcctcccatcttgca	1800
D	b	1741	acaaagggccacaagccagttccagagccctctctgtctccatcccccctgcctcccatcttgca	1800
Q	y	1801	ccacaacctggcatalgtgtgcaaggagacatctgcacccctcaagtttggtggcaggccaggtgccc	1860
D	b	1801	ccacaacctggcatalgtgtgcaaggagacatctgcacccctcaagtttggtggcaggccaggtgccc	1860
Q	y	1861	cccgaggaaatgataataagaataatctctgaagaactg	1894
D	b	1861	cccgaggaaatgataataagaataatctctgaagaactg	1894

```

RESULT 3
PCT-US99-17470-1
: Sequence 1, Application PC/TUS9917470
: GENERAL INFORMATION:
: APPLICANT: Human Genome Sciences, Inc.
: APPLICANT: Beth Israel Deaconess Medical Center
: APPLICANT: Liberman, Towia A.
: APPLICANT: Oeltgen, Joerg P.
: APPLICANT: Kunsch, Charles A.
: APPLICANT: Endress, Gregory A.
: APPLICANT: Rosen, Craig A.
: TITLE OF INVENTION: Prostate Derived Ets Factor
: FILE REFERENCE: 1488.109PC01
: CURRENT APPLICATION NUMBER: PCT/US99/17470
: CURRENT FILING DATE: 1999-08-02
: EARLIER APPLICATION NUMBER: US 09/126,945
: EARLIER FILING DATE: 1998-07-31
: NUMBER OF SEQ ID NOS: 15
: SOFTWARE: Patentin Ver. 2.0
: SEQ ID NO 1
: LENGTH: 1894
: TYPE: DNA
: ORGANISM: Homo sapiens
PCT-US99-17470-1

```

Query Match	98.7%	Score 1870;	DB 1;	Length 1894;
Best Local Similarity	99.28;	Pred. No. 0;		
Matches 1879; Conservative	0;	Mismatches 15;	Indels 0;	Gaps 0;

QY	1	gtfgracttctctccacagacaattctctgcaactctgcagctctgctatgctacacactctcccaagaagccc	60
Db	1	gtctgacttctctccacagacaattctctgcaactctgcagctctgctatgctacacactctcccaagaagccc	60
QY	61	agtctctccaaagctctgctctgcaagactctctctctcctcgaagccccctcctaaggtcttgagctcttgcaagctgtg	120
Db	61	agtctctccaaagctctgctctgcaagactctctctctcctcgaagccccctcctaaggtcttgagctcttgcaagctgtg	120
QY	121	ccagtcagagtcagtcctctggtgctctggtgtgtataggtgatactctctctctctctctctcgaagcagccccctgagaac	180
Db	121	ccagtcagagtcagtcctctggtgctctggtgtgtataggtgatactctctctctctctctctcgaagcagccccctgagaac	180
QY	181	gcccacacagccccctctgaaagtctgcccagaagccccccagctgagcaaacctgagctgctcctct	240
Db	181	tcagagaggtgcacccccctctgaaagtctgcccagaagccccccagctgagcaaacctgagctgctcctct	240
QY	241	gcccacacagccccctctggtgccccctctgctctcgtctccgtctgccccccagaatctgctctgctgaaagacaagc	300
Db	241	gcccacacagccccctctggtgccccctctgctctcgtctccgtctgccccccagaatctgctctgctgaaagacaagc	300
QY	301	cagctgagctctcagctctgcccacaacactctctccggccccctctgaaagtcttgacatctgcaagcagaag	360
Db	301	cagctgagctctcagctctgcccacaacactctctccggccccctctgaaagtcttgacatctgcaagcagaag	360
QY	361	ctccccctgggcaacacagctgcaagctctaaacagacaacagctgcacagcccccaaaacagcaagctgagctgtg	420
Db	361	ctccccctgggcaacacagctgcaagctctaaacagacaacagctgcacagcccccaaaacagcaagctgagctgtg	420
QY	421	cagagtcacagccccctggtctctgagcagcgtatctcccccacacactctctgctctgccccccagaagac	480
Db	421	cagagtcacagccccctggtctctgagcagcgtatctcccccacacactctctgctctgccccccagaagac	480
QY	481	ggctctcagtgagacaagactcttgagagagagacagctgcagctgcagctgagctgagctgagctgagctgagctgag	540
Db	481	ggctctcagtgagacaagactcttgagagagagacagctgcagctgcagctgagctgagctgagctgagctgagctgag	540
QY	541	ctgagagctcccaagctccacacccagccccagccccagagagctgtctcgcctccgaactctccta	600
Db	541	ctgagagctcccaagctccacacccagccccagccccagagagctgtctcgcctccgaactctccta	600
QY	601	ctttgacaatgtgtacacccctctgagacaagacagctgtgagcacaagagccccctctgagagcagaag	660
Db	601	ctttgacaatgtgtacacccctctgagacaagacagctgtgagcacaagagccccctctgagagcagaag	660
QY	661	ctggagagagagcacacctctgaacacagcctctgagcagctgctccggtctatcttgacaagccaagccccagc	720
Db	661	ctggagagagagcacacctctgaacacagcctctgagcagcctctgagcagcctgctccggtctatcttgacaagccaagccccagc	720
QY	721	gggcaaccccttgaaactctgtgtgccccggcgcggtgcgaacactctggagagagagacactgcctctgagacaagt	780
Db	721	gggcaaccccttgaaactctgtgtgccccggcgcggtgcgaacactctggagagagagacactgcctctgagacaagt	780
QY	781	gcaagctcacaatgtgtgtgtggtcgagaaatgtgctcacaagagacatctgagagacagctgcagaaagctgtgctcaa	840
Db	781	gcaagctcacaatgtgtgtgtggtcgagaaatgtgctcacaagagacatctgagagacagctgcagaaagctgtgctcaa	840
QY	841	catcacccgcagaaatccccaatgtgagactgtgagcccccaagcaaatgtgcacagaagctgtgctctctgttgagac	900
Db	841	catcacccgcagaaatccccaatgtgagactgtgagcccccaagcaaatgtgcacagaagctgtgctctctgttgagac	900
QY	901	agagagacaacaatctcagctgtgccccccacatctgagagcagagcctctctcagagagagctctgagcggtgagaaag	960
Db	901	agagagacaacaatctcagctgtgccccccacatctgagagcagagcctctctcagagagagctctgagcggtgagaaag	960
QY	961	gctctgtgcgcacatgtctggagagagcagatctccgcagcagctctgccccctgtggtgtggtgtgtgtgt	1020
Db	961	gctctgtgcgcacatgtctggagagagcagatctccgcagcagctctgccccctgtggtgtggtgtgtgtgtgt	1020
QY	1021	gcaacgcccccaactctgagacactctgagagctcagagctgagctgtgagaaagagcggaactctcaactcgtg	1080
Db	1021	gcaacgcccccaactctgagacactctgagagctcagagctgagctgtgagaaagagcggaactctcaactcgtg	1080
QY	1081	ggcgagcttcaactactgctgctctctgacacagctgagagagagactctgagacagagcagagctgagctc	1140

```
|||||
Db 1081 ggcgattactactgtgcttcgaccagtgagagagctgtagccagacagcgatgtagctc 1140
Qy 1141 atcatgtctcgggccaagcccatccatccactgtgagatgctccccaaggaggtgtctctaaagc 1200
Db 1141 atcatgtctcgggccaagcccatccatccactgtgagatgctccccaaggaggtgtctctaaagc 1200
Qy 1201 ccacagactatggcgcgtctcatatagtgatgtgctcaacaagaggaaggagcatcttcaaatgtga 1260
Db 1201 ccacagactatggcgcgtctcatatagtgatgtgctcaacaagaggaaggagcatcttcaaatgtga 1260
Qy 1261 ggaactagcccaagggtgcccgcgtgtgtgggcatccgcaagaacccgtcccgccaatgaactg 1320
Db 1261 ggaactagcccaagggtgcccgcgtgtgtgggcatccgcaagaacccgtcccgccaatgaactga 1320
Qy 1321 ccgaagactgagccgctccatccatccgacagcttacaagaaggagcatccatccggaagccaga 1380
Db 1321 ccgaagactgagccgctccatccatccgacagcttacaagaaggagcatccatccggaagccaga 1380
Qy 1381 catctccagcgctctgtctacaagttcgctgcaaccacactgtagtgcttgcccaaggcc 1440
Db 1381 catctccagcgctctgtctacaagttcgctgcaaccacactgtagtgcttgcccaaggcc 1440
Qy 1441 tgaataccgcgcctccagggcctctcctgcgtccctgctcctcagccagcgccctgagatg 1500
Db 1441 tgaataccgcgcctccagggcctctcctgcgtccctgctcctcagccagcgccctgagatg 1500
Qy 1501 ggggaaacagcgagctgtctgtctgtctgtacacttcccaagagcccaagagtcaggagaggg 1560
Db 1501 ggggaaacagcgagctgtctgtctgtctgtacacttcccaagagcccaagagtcaggagaggg 1560
Qy 1561 gcaacacactgcccacaggggagatagtggtcctctctgagccttcgagacatgaggcaagg 1620
Db 1561 gcaacacacactgcccacaggggagatagtggtcctctctgagccttcgagacatgaggcaagg 1620
Qy 1621 gtgtcctcctctcagggccacagctgctccctcctgagagacagagggagagcctctccc 1680
Db 1621 gtgtcctcctcctcagggccacagctgctccctcctgagagacagagggagagcctctccc 1680
Qy 1681 caaacactgtcctctgaccccccacatctccagagcagagactcaacaagaaggcagtgactcg 1740
Db 1681 caaacactgtcctctgaccccccacatctccagagcagagactcaacaagaaggcagtgactcg 1740
Qy 1741 acaaaaggccaacagcgatgccaggtcctctctgtctccatcccccgtcctccatctcgca 1800
Db 1741 acaaaaggccaacagcgatgccaggtcctctctgtctccatcccccgtcctccatctcgca 1800
Qy 1801 ccacacctgacatgtgtgcagggagacatctgcaacccctcagttggggcagcgagagtgcc 1860
Db 1801 ccacacctgacatgtgtgcagggagacatctgcaacccctcagttggggcagcgagagtgcc 1860
Qy 1861 cccgggaatgagataaagatactagagaactg 1894
Db 1861 cccgggaatgagataaagatactagagaactg 1894

RESULT 4
US-09-126-945-1
; Sequence 1, Application US/09126945
; GENERAL INFORMATION:
; APPLICANT: Libermann, Towia A.
; APPLICANT: Oeltgen, Joerg P.
; APPLICANT: Kunsch, Chuck
; APPLICANT: Rosen, Craig A.
; APPLICANT: Endress, Gregory A.
; TITLE OF INVENTION: Prostate Derived Ets Factor
; FILE REFERENCE: 1488.1090000
; CURRENT APPLICATION NUMBER: US/09/126,945
; CURRENT FILING DATE: 1998-07-31
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1894
```

```
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-126-945-1

Query Match 98.7%; Score 1870; DB 15; Length 1894;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1879; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 1 gtctgactctctccagacacatctcctgactctgcgcgtgtccacactgcccacagacc 60
Db 1 gtctgactctctccagacacatctcctgactctgcgcgtgtccacactgcccacagacc 60
Qy 61 agtctccaaagctgtgtccagctccctcctgcaagccctcagagttgtggccttgccacggtg 120
Db 61 agtctccaaagctgtgtccagctccctcctgcaagccctcagagttgtggccttgccacggtg 120
Qy 121 ccagcaagcagccctctggtcggtgggtatggagactcctctaaagcagcagcccttagagcc 180
Db 121 ccagcaagcagccctctggtcggtgggtatggagactcctctaaagcagcagcccttagagcc 180
Qy 181 gccacacagccaccccttgagaggttgccagagcccccagtgcccaactgagtgctgctctc 240
Db 181 tcagaggggccaccccttgagaggttgccagagcccccagtgcccaactgagtgctgctctc 240
Qy 241 gccacacagcccttggtgcccctgtgtccgtgtgcccccaagatgctgtgtgagacagc 300
Db 241 gccacacagcccttggtgcccctgtgtccgtgtgcccccaagatgctgtgtgagacagc 300
Qy 301 cagtggtcctcaagctgtgcccaacactctcccggtcccttgaggttggtgcactgcagcagag 360
Db 301 cagtggtcctcaagctgtgcccaacactctcccggtcccttgaggttggtgcactgcagcagag 360
Qy 361 ctccctgtgcccacagcagcttaacagacacagccgcagcccaacacagcagcgcatggg 420
Db 361 ctccctgtgcccacagcagcttaacagacacagccgcagcccaacacagcagcgcatggg 420
Qy 421 cagcgccagcccggtgtctgagcagcgtatcccccagccacactcctgtctgcccccgacac 480
Db 421 cagcgccagcccggtgtctgagcagcgtatcccccagccacactcctgtctgcccccgacac 480
Qy 481 ggtgtcggggagacagcttggtgagagagcgcgagcggtgggtcgtgtctgagagagcggga 540
Db 481 ggtgtcggggagacagcttggtgagagagcgcgagcggtgggtcgtgtctgagagagcggga 540
Qy 541 ctggagctccagctccaccccgccacagcccgagcagggcctgtccgccttcaactctctca 600
Db 541 ctggagctccagctccaccccgccacagcccgagcagggcctgtccgccttcaactctctca 600
Qy 601 ctttgacatgtcttaacctgagagcagcagctgtggcagccaaggcccttggtggccagcag 660
Db 601 ctttgacatgtcttaacctgagagcagcagctgtggcagccaaggcccttggtggccagcag 660
Qy 661 tcgggagagagccacactgacacagccttgagcagctgcccgggtcaattgacagcaaacccccagc 720
Db 661 tcgggagagagccacactgacacagccttgagcagctgcccgggtcaattgacagcaaacccccagc 720
Qy 721 gggcaacccctgagactgtgtgccggcggtgtgacacttgtagagagacactcgtgtgagcagt 780
Db 721 gggcaacccctgagactgtgtgccggcggtgtgacacttgtagagagacactcgtgtgagcagt 780
Qy 781 gcagtccatgtgtgtgtggcggaagtgtctcaagagacatcgagacggtgcctgcagactgtctcaa 840
Db 781 gcagtccatgtgtgtgtggcggaagtgtctcaagagacatcgagacggtgcctgcagactgtctcaa 840
Qy 841 cataccgcaatcccatgagctgagcccccaagcaatgtgcaagaagtgtgctcctgtgagc 900
Db 841 cataccgcaatcccatgagctgagcccccaagcaatgtgcaagaagtgtgctcctgtgagc 900
Qy 901 agagcaccataaccggtgtgcccccatgtgggcaaggccttccaaagagctgtgcgggcaagga 960
Db 901 agagcaccataaccggtgtgcccccatgtgggcaaggccttccaaagagctgtgcgggcaagga 960
```

[illegible]

RESULT 5  
US-09-126-945A-1  
; Sequence 1, Application US/09126945A

;	APPLICANT:	Libermann, Towia A.
;	APPLICANT:	Oetgen, Joerg P.
;	APPLICANT:	Kunsch, Charles A.
;	APPLICANT:	Endress, Gregory A.

```

; ; APPLICATION: Rosen, Craig A.
; ; TITLE OF INVENTION: Prostata Derived Ets Factor
; ; FILE REFERENCE: 1488,1090000
; ; CURRENT APPLICATION NUMBER: US/09/126,945A
; ; CURRENT FILING DATE: 1998-07-31
; ; NUMBER OF SEQ ID NOS: 15
; ; SOFTWARE: PatentIn Ver. 2.0
; ; SEQ ID NO 1
; ; LENGTH: 1894
; ; TYPE: DNA
; ; ORGANISM: Homo sapiens
US-09-126-945A-1

```

Query Match	98.78;	Score 1870;	DB 15;	Length 1894;
-------------	--------	-------------	--------	--------------

Matches 1879; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1 gtcgtactctctccagcacatctcctgcaactctgccgtgtccacactgcccacagacc 60

Db 1 gtcgtacttcctccagcacatctcctgcactctgcggtgtccacaactgccccacagacc 60

QY 61 agtcctcaagcctgtgccagctccctgcaagccctcaggttgyccttgccaagt 12

Db 61 agtcctccaagcctgtctgccagctccctgcaagccctcaggttggtccttgccaagt 12

QY 121 ccagcagcagccctgggctgggggtagggactccctacaggcacgcagccctgagacc 18

Db 121 ccagcagcagccctggtgtggttagggactccctacagcagcagccctgagacc 18

QY 181 gccaccagccacccttgagggtgccaaggcccccagtcgccaactgagtgtgctctc 24

Db 181 tcagagggccacccttgagggtgccaagcccccagtgccaacctgagtgtctct 24

QY 241 gccaccagccctgtgccccctgttcgctggccccccagatgcctgtgagacacgc 30

Db 241 gccaccagccctgtgccctgttcgctggcccccagatgctgtgagacagc 30

QY 301 cagtggcctcagctgccacacctctcccgccctggagttggcactgcagcagacag 360

Db 301 cagtgcctcagctgccacacctctccggccctgaagtggcactgcagcagacag 36

QY 361 ctccctgggcaccagcagctaacagacacagccgcagcccaacagcagcgcatgg 422

Db 361 ctccctggtaccagcagctaacagacacagccgcagcccaaacagcagcgcattgg 42

QY 421 cagcgccagcccggtctgagcagcggtatccccagccacctctgtgcccccgacac 488

Db 421 cagcgccagcccggtcttgagcagcgtatccccagccacctctgtgccccccgcacac 488

QY 481 ggtgtcgcgcagcgttggagaaagcgcgcagtcgggtcctcgagagacggga 54

Db 481 ggtgttcgcgcgcagcctctggagaagcgcgcagcgcgggcagctggctctcgcagagacgcggga 54

QY 541 ctggagtcaccagtcacccgcacgcagccagcagggcctgtccgccttcgaccttccta 60

Db 541 ctggagtcctcagtcacccgcccagcaggggcctgtccgcctctctacctctccta 60

601 cttgacatgctgtaccctgaggaacagcagctgggcaagccaaagcccccctggggccagcag 606

Dd 601. ccttgacatgcctgtacccctgaggaacagcagcctgggcaagccaagggcccccctggggccagcag 606

0601 ccgggaggagccaccaccagccctgagcagctgcccggctcatctgacagccaaagcccccagc /

Db 001 tctgttgagtgacccacccctgtagcagctgcccgttcattctgacagccaaagcccacagc /

21 ggugcaccclggaccclggcccgugcugugcclggaccclggagugagcaccclcgugagcaguc / 21

Db /21 gggcagcctggacctggctggcccgcgggcctggacctggaggagcaccctggcctggaggcaggc /

84  
/81 gcagtcccatggtggtggtcgaagtcctcaaggacatcgaagacggtccctgcaagctgctccaa  
QY

Db 781 gcagtcctggtggtgcgaagtgtcacaagacatcgagacggtcctgcaagctgtctca 84



QY 841 catcacccgagatccatgactgagagcccccagcaatgtgcagaagtgtgctctgtgac 900  
|||||  
Db 841 catcacccgagatccatgactgagagcccccagcaatgtgcagaagtgtgctctgtgac 900  
QY 901 agagcaccaatcacgctgccccccatgagcaagagcttccagagactgagcgagagga 960  
|||||  
Db 901 agagcaccaatcacgctgccccccatgagcaagagcttccagagactgagcgagagga 960  
QY 961 gctgtgcccacatgtcggagagagcagttccgcgcagcgtcccggtgggtggagatgtct 1020  
|||||  
Db 961 gctgtgcccacatgtcggagagagcagttccgcgcagcgtcccggtgggtggagatgtct 1020  
QY 1021 gcaagcccaactggaactcctggaagtcagagcggtctgtagaagagagagacttcaactt 1080  
|||||  
Db 1021 gcaagcccaactggaactcctggaagtcagagcggtctgtagaagagagagacttcaactt 1080  
QY 1081 ggcgattcactactgtgctcctgagccagtgagagagactggaaccgagagagtgagctc 1140  
|||||  
Db 1081 ggcgattcactactgtgctcctgagccagtgagagagactggaaccgagagagtgagctc 1140  
QY 1141 atcatgtctccgggagagccatccactgtgagcagttccctcaagagagttactcaagcc 1200  
|||||  
Db 1141 atcatgtctccgggagagccatccactgtgagcagttccctcaagagagttactcaagcc 1200  
QY 1201 ccaacagctatgagccgctctcatagtggtgctcaacaaagagagagagcttcaaaattga 1260  
|||||  
Db 1201 ccaacagctatgagccgctctcatagtggtgctcaacaaagagagagagcttcaaaattga 1260  
QY 1261 ggaactcagcccaagtgagccgctgtgtggtggtcagtcgaagaacagtcgccgcagtgaa 1320  
|||||  
Db 1261 ggaactcagcccaagtgagccgctgtgtggtggtcagtcgaagaacagtcgccgcagtgaa 1320  
QY 1321 cgacaagctgagccgctcctcctccagagcttctcaagaagagagagagagagagagagag 1380  
|||||  
Db 1321 cgacaagctgagccgctcctcctccagagagcttctcaagaagagagagagagagagagag 1380  
QY 1381 catctccagagcgcctcgtctcaacagtcgtgtgcaacccatctgagtgctgtgcccaggg 1440  
|||||  
Db 1381 catctccagagcgcctcgtctcaacagtcgtgtgcaacccatctgagtgctgtgcccaggg 1440  
QY 1441 tgaaccccgccctcagagagagctctctctgctcagccctgctcagagagagagagagag 1500  
|||||  
Db 1441 tgaaccccgccctcagagagagctctctctgctcagccctgctcagagagagagagagag 1500  
QY 1501 ggggaaaaacgagcagtgctgtgctgtgctgtgctgtgctgtgctgtgctgtgctgtgct 1560  
|||||  
Db 1501 ggggaaaaacgagcagtgctgtgctgtgctgtgctgtgctgtgctgtgctgtgctgtgct 1560  
QY 1561 gcaacccaactgcccagagagagatagtggtctcctctgagagagagagagagagagag 1620  
|||||  
Db 1561 gcaacccaactgcccagagagagatagtggtctcctctgagagagagagagagagagag 1620  
QY 1621 gtgtcttcctcctcagagcagctgtcctccctgagagagagagagagagagagagagag 1680  
|||||  
Db 1621 gtgtcttcctcctcagagcagctgtcctccctgagagagagagagagagagagagagag 1680  
QY 1681 caaacacctgctctgaccccaagcaatctccagagagagagagagagagagagagagag 1740  
|||||  
Db 1681 caaacacctgctctgaccccaagcaatctccagagagagagagagagagagagagagag 1740  
QY 1741 acaaaagcgacagagcagctcagagcctctctctgctcagatccctctgctcctcctcag 1800  
|||||  
Db 1741 acaaaagcgacagagcagctcagagcctctctctgctcagatccctctgctcctcctcag 1800  
QY 1801 ccacacctgagcagtgctgagagagagacatctgcaacccctgagtggtgagagcagagtg 1860  
|||||  
Db 1801 ccacacctgagcagtgctgagagagagacatctgcaacccctgagtggtgagagcagagtg 1860  
QY 1861 cccgggaaatgagataaagataactagagaaactg 1894  
|||||  
Db 1861 cccgggaaatgagataaagataactagagaaactg 1894

RESULT 6  
US-09-126-945B-1  
; Sequence 1, Application US/09126945B  
; GENERAL INFORMATION:  
; APPLICANT: Libermann, Towia A.  
; APPLICANT: Oetting, Joerg P.  
; APPLICANT: Kunsch, Charles A.  
; APPLICANT: Endress, Gregory A.  
; APPLICANT: Rosen, Craig A.  
; TITLE OR INVENTION: Prostate Derived Ets Factor  
; FILE REFERENCE: 1488.1090000  
; CURRENT APPLICATION NUMBER: US/09/126,945B  
; CURRENT FILING DATE: 1998-07-31  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 1894  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-126-945B-1  
  
Query Match 98.7%; Score 1870; DB 15; Length 1894;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1879; Conservative 0; Mismatches 15; Indels 0; Gaps 0;  
  
QY 1 gctcgtactctccagacatctcctgactctgctgctgctcagactgccccagagacc 60  
Db 1 gctcgtactctccagacatctcctgactctgctgctgctcagactgccccagagacc 60  
QY 61 agctctccaagcctgt 120  
Db 61 agctctccaagcctgt 120  
QY 121 ccagcagagcagcctgt 180  
Db 121 ccagcagagcagcctgt 180  
QY 181 gcccac 240  
Db 181 tcagagggcacaacccctgtgaggggtgaggggtgaggggtgaggggtgaggggtgaggggt 240  
QY 241 gccaac 300  
Db 241 gccaac 300  
QY 301 cagtggtctcagctgt 360  
Db 301 cagtggtctcagctgt 360  
QY 361 ctccctgtgagcagagagctcaacagacacacacacacacacacacacacacacacacac 420  
Db 361 ctccctgtgagcagagagctcaacagacacacacacacacacacacacacacacacacac 420  
QY 421 cagcgcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 480  
Db 421 cagcgcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 480  
QY 481 ggtgtcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 540  
Db 481 ggtgtcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 540  
QY 541 ctgagagctccagctccac 600  
Db 541 ctgagagctccagctccac 600  
QY 601 ctcttacaatgtctgtaacccctgagagcagagcagcagcagcagcagcagcagcagcagc 660  
Db 601 ctcttacaatgtctgtaacccctgagagcagagcagcagcagcagcagcagcagcagcagc 660  
QY 661 tcgggagagagcacaactgagcagcagcagcagcagcagcagcagcagcagcagcagcagc 720  
Db 661 tcgggagagagcacaactgagcagcagcagcagcagcagcagcagcagcagcagcagcagc 720

Db	661	tcvgagagagcaaccctcgagagagctcgagagctgcccgtctcatctgacagccaagcccagc	720
Qy	721	gggagaccctcgagactctgctgcccggcgagctcgacacctgagagagacactgcgtcgagcaggt	780
Db	721	gggagagagctgagactctgctgcccggcgagctcgacacctgagagagacactgcgtcgagcaggt	780
Qy	781	gcagctccatctgctgctgctggcgaaagtctctcaagagacatctgagagcgcgtcgacacaa	840
Db	781	gcagctccatctgctgctgctggcgaaagtctctcaagagacatctgagagcgcgtcgacacaa	840
Qy	841	catcacccgagagatcccatctgagactcgagcccccgagacatctgagagagctgagctccctgtagac	900
Db	841	catcacccgagagatcccatctgagactcgagcccccgagacatctgagagagctgagctccctgtagac	900
Qy	901	agagagacccaataaccgagctctgcccccatactgagcaagcctctccagagagctcgagggccaagga	960
Db	901	agagagacccaataaccgagctctgcccccatactgagcaagcctctccagagagctcgagggccaagga	960
Qy	961	gctctgctgccaatctcgagagagagcagatctccgcacagagctctgcgccctctgagctgtagagctgct	1020
Db	961	gctctgctgccaatctcgagagagagcagatctccgcacagagctctgcgccctctgagctgtagagctgct	1020
Qy	1021	gcaagccccacactgagacatctgagaaagctcaagcgtctgagatgaaagacgagacttcaacctg	1080
Db	1021	gcaagccccacactgagacatctgagaaagctcaagcgtctgagatgaaagacgagacttcaacctg	1080
Qy	1081	ggcgatctcatcaactgctgctctccgagccagctgagagagagcctgagacccaagacagagctgtagactc	1140
Db	1081	ggcgatctcatcaactgctgctctccgagccagctgagagagagcctgagacccaagacagagctgtagactc	1140
Qy	1141	atcatactgctcgaggagagccacataccactctgagagatctctccaagagagctgtgactataccagcc	1200
Db	1141	atcatactgctcgaggagagccacataccactctgagagatctctccaagagagctgtgactataccagcc	1200
Qy	1201	cccaagagctatagagccgagcttcaatgagcttcagacaaagagagagagccatctccaataatgga	1260
Db	1201	cccaagagctatagagccgagcttcaatgagcttcagacaaagagagagagccatctccaataatgga	1260
Qy	1261	ggacatccagcccaagctgagctccggagctctgaggggacatccgacaagaaacgctcccgccatgaaacta	1320
Db	1261	ggacatccagcccaagctgagctccggagctctgaggggacatccgacaagaaacgctcccgccatgaaacta	1320
Qy	1321	cgagacagctcgagccgagctccatcccgccaagcttcaacaagagagagacatcatccggagagccaaga	1380
Db	1321	cgagacagctcgagccgagctccatcccgccaagcttcaacaagagagagacatcatccggagagccaaga	1380
Qy	1381	catctcccaagagcctctgctcaacagcttctgcaaccccatctgagctgagctgctggcccaaggccc	1440
Db	1381	catctcccaagagcctctgctcaacagcttctgcaaccccatctgagctgagctgctggcccaaggccc	1440
Qy	1441	tgaaaccggccctcagaggggctctctctctcgtcgtccctcgactcagccagagccctgagagatg	1500
Db	1441	tgaaaccggccctcagaggggctctctctctcgtcgtccctcgactcagccagagccctgagagatg	1500
Qy	1501	ggggagaaaacgggagcagctgtgctctgctcgactctgagacctctccagagggcccaaggtctcaagggagtg	1560
Db	1501	ggggagaaaacgggagcagctgtgctctgctcgactctgagacctctccagagggcccaaggtctcaagggagtg	1560
Qy	1561	gcaacaccaactgcccccaaggggagatctgctctctgagggcctctcgagacatctgagggcagagtg	1620
Db	1561	gcaacaccaactgcccccaaggggagatctgctctctgagggcctctcgagacatctgagggcagagtg	1620
Qy	1621	gtgctctctctctcaaggcccaagctgctctccctctgagagagagagagagagagagagagctgctcc	1680
Db	1621	gtgctctctctctcaaggcccaagctgctctccctctgagagagagagagagagagagagagagctgctcc	1680
Qy	1681	caaacactcgctctcgagaccagagacatttccagagagcagagctcacaagaaagggcagctgtagctcg	1740
Db	1681	caaacactcgctctcgagaccagagacatttccagagagcagagctcacaagaaagggcagctgtagctcg	1740
Qy	1741	acaaagagccacaggcagttccaagcctctctctgctccatctcccccctgctctcccatctctgca	1800
Db	1741	acaaagagccacaggcagttccaagcctctctctctgctccatctcccccctgctctcccatctctgca	1800

```

OY 1801 ccacacctggcatgtgtcgaaggagacatctgcacccctcagtttggcagccagagatgcc 1860
      |||||||
Db 1801 ccacacctggcatgtgtcgaaggagacatctgcacccctcagtttggcagccagagatgcc 1860
OY 1861 cccgggaatgtaataagaatactcagagactg 1894
      |||||||
Db 1861 cccgggaatgtaataagaatactcagagactg 1894

RESULT 7
US-09-570-593-1
: Sequence 1, Application US/09570593
: GENERAL INFORMATION:
: APPLICANT: Kaufmann, Joerg
: APPLICANT: Xin, Hong
: APPLICANT: Harrowe, Greg
: TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
: TITLE OF INVENTION: CANCER
: FILE REFERENCE: 2300-1556
: CURRENT APPLICATION NUMBER: US/09/570,593
: PRIOR FILING DATE: 2000-05-12
: PRIOR APPLICATION NUMBER: 60/134,112
: PRIOR FILING DATE: 1999-05-14
: NUMBER OF SEQ ID NOS: 13
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1
: TYPE: DNA
: LENGTH: 1894
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (416)...(1423)
: OTHER INFORMATION: Human JKETS.
US-09-570-593-1

Query Match 98.7%; Score 1870; DB 22; Length 1894;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1879; Conservative 0; Mismatches 15; Indels 0; Gaps 0.

OY 1 gctctaactctcccccagacatctcctgcacactgtcccggtgccacaactgcccacagacc 60
      |||||||
Db 1 gctctaactctcccccagacatctcctgcacactgtcccggtgccacaactgcccacagacc 60
OY 61 agtctccacaagcctgtctgcacagctcccttgcaagccctcaggtctgggctgtccaaagtgtg 120
      |||||||
Db 61 agtctccacaagcctgtctgcacagctcccttgcaagccctcaggtgtggcctgtccaaagtgtg 120
OY 121 ccagcagcagcagccctggggtgttgagggagcctccctcagcagcagccctcagagacc 180
      |||||||
Db 121 ccagcagcagcagccctggggtgttgagggagcctccctcagcagcagccctcagagacc 180
OY 181 gccacacagccacccctcttgagggttggtgcacagcccccagcttgccaaactgagtctgcctct 240
      |||||||
Db 181 tcagcagcagccacccctcttgagggttggtgcacagcccccagcttgccaaactgagtctgcctct 240
OY 241 gccacacagccctgtcggccccctggttcgcgctgtgcccccaagatgctctgtcagcagacc 300
      |||||||
Db 241 gccacacagccctgtcggccccctggttcgcgctgtgcccccaagatgctctgtcagcagacc 300
OY 301 ccagtgccctcagctgcccacacactctctcccgcccccttgagttgtgacatgcagcagacag 360
      |||||||
Db 301 ccagtgccctcagctgcccacacactctctcccgcccccttgagttgtgacatgcagcagacag 360
OY 361 ctccctctggcaccagcagctaacagacacagcagccgcagcccaacaacagcagcgcatggg 420
      |||||||
Db 361 ctccctctggcaccagcagctaacagacacagcagccgcagcccaacaacagcagcgcatggg 420
OY 421 ccagcgcacaccccggtctcagcagcgctatcccccacacacctccctctgtcccccagacc 480
      |||||||
Db 421 ccagcgcacaccccggtctcagcagcgctatcccccacacacctccctctgtgtcccccagacc 480

```

QY	481	gqfctcggaaacagcgtcttgaaagaaagccaaacggggccagtgtgctctcggaaacggga	540
Dp	481	ggfctcgaaacagcgtcttgaaagaaagccaaacggggccagtgtgctctcggaaacggga	540
QY	541	ctcgagctccagctccaccccgacacggcccgaaagagccctgtccgctctcgactctccta	600
Dp	541	ctcgagctccagcgtccaccccgacacggcccgaaagagccctgtctccgctctctcctcta	600
QY	601	ctttgaaatctcttaaccctgaaagaaacagcgtcgggccaacaaagccctctggggccaacag	660
Dp	601	ctttgaaatctcttaaccctgaaagaaacagcgtcgggccaacaaagccctctggggccaacag	660
QY	661	tcggagagagtcacactgaaacagcctgaaagcagtgcgccgttcaattgaacagcaagcccaacg	720
Dp	661	tcggagagagtcacactgaaagagccttgaaagagcctgaaagcagcttcaattgaacagcaagcccaacg	720
QY	721	gggcaaccccttgaaactctgtgtcccgccggggcttgaaactcttgaaagagcaactgcgtcggaagagt	780
Dp	721	ggggaagccttgaaactctgtgtcccgccggggcttgaaactcttgaaagagcaactgcgtcggaagagt	780
QY	781	gcagctccatctgtgtgtggcggaagtgctccaagagacatctgaagacgctgcctgaagctgtctcaa	840
Dp	781	gcagctccatctgtgtgtggcggaagtgctccaagagacatctgaagagcctgcctgaagctgtctcaa	840
QY	841	catcaacccgagatcccaatgaaactcgtgaagccccaagcaatgtgcagaagatgtgcctcctgtgaac	900
Dp	841	catcaacccgagatcccaatgaaactcgtgaagccccaagcaatgtgcagaagatgtgcctcctgtgaac	900
QY	901	agagacacaaatccacggcgtctgcgcccaatgggcaagagccttccagagagctgcgcgggccaagga	960
Dp	901	agagacacaaatccacggcgtctgcgcccaatgggcaagagccttccagagagctgcgcgggccaagga	960
QY	961	gctcttgagccactgtctcgaaagaaagcaggtctccggccaagcgcctccgcccctcgggttgaggatgtct	1020
Dp	961	gctcttgagccactgtctcgaaagaaagcaggtctccggccaagcgcctccgcccctcgggttgaggatgtct	1020
QY	1021	gcaagccccaacacttgaaatctggaagatccaaagcctcgtggttgaaagagcggaacttaactcgtg	1080
Dp	1021	gcaagccccaacacttgaaatctcggaaagatccaaagcctcgtggttgaaagagcggaacttaactcctgg	1080
QY	1081	ggcgatctcaactaactgtgctcctcgaaacagctgaaagagagcctgaaacccgaagcgtggaacttc	1140
Dp	1081	ggcgatctcaactaactgtgctcctcgaaacagctgaaagagagcctgaaacccgaagcgtggaacttc	1140
QY	1141	atcagctcccgggcgaagcccaatccctctgfggaagttccctcaagagaggtgtgctactccaagcc	1200
Dp	1141	atcagctcccgggcgaagcccaatcccaatccctctgfggaagttccctcaagagaggtgtgctactccaagcc	1200
QY	1201	ccaagagctatgtgcgcgtcttcaattgaagtgtgtctccaagaagggaaagcattctccaatatgga	1260
Dp	1201	ccaagagctatgtgcgcgtcttcaattgaagtgtgtctccaagaagggaaagcattctccaatatgga	1260
QY	1261	ggaatccagccgaagtgccgcgggctctgtgtggggcaatccggcaagaaacccgtcccgccatagaagtgt	1320
Dp	1261	ggaatccagccgaagtgccgcgggctctgtgtggggcaatccggcaagaaacccgtcccgccatagaatcta	1320
QY	1321	cgaaacagactgaagccgcgtctcaatccggccaagcttatacaagaaagggcatalcatccggaaagccga	1380
Dp	1321	cgaaacagactgaagccgcgtctcaatccggccaagcttatacaagaaagggcatalcatccggaaagccga	1380
QY	1381	catctcccaagcgtcctgtcttaacaaagtctgtgaaccccaactctgaagtcctctggcccgagggcc	1440
Dp	1381	catctcccaagcgtcctgtcttaacaaagtctgtgaaccccaactctgaagtcctctggcccgagggcc	1440
QY	1441	tgaaaccgcgcctcctaaagggcctctctctctgtgcctgcctcctcaagccsaagccctgaaagtgtg	1500
Dp	1441	tgaaaccgcgcctcctaaagggcctctctctctgtgcctgcctcctcaagccsaagccctgaaagtgtg	1500
QY	1501	ggggaaaaacgggcaagtgctgtctgcgtccttgaaccttccaagagcccaaggtccaagggaaagg	1560
Dp	1501	ggggaaaaacgggcaagtgctgtctgcgtccttgaaccttccaagagcccaaggtccaagggaaagg	1560
QY	1561	gcaacaaactgtgccccagggggaatactgtgtctctctgtgggctcttcgggacaatagtggagagg	1620

```

Db 1561 gcaaccacacgcccacaggggagatagtggtccctctgggcttcggagaccacagggcaggg 1620
|||||
Oy 1621 gtgtcttcctcccaaggccagctgtctctcccttggagagacagagggagcaggtctccc 1680
Db 1621 gtgtcttcctcccaaggccagctgtctctcccttggagagacagagggagcaggtctccc 1680
Oy 1681 caaacctgtcctctgacccaccagatttcacagagcagagcctacaaagggcagtgtaactg 1740
Db 1681 caaacctgtcctctgacccaccagatttcacagagcagagcctacaaagggcagtgtaactg 1740
Oy 1741 acaaaagccacaggcagctccagagcctctctctgtctccatcccccctgtcctccattctgca 1800
Db 1741 acaaaagccacaggcagctccagagcctctctctgtctccatcccccctgtcctccattctgca 1800
Oy 1801 ccaacctgtgcattgtgcagagagacatctgcacccctcagttctggcgacagcagatgtcc 1860
Db 1801 ccaacctgtgcattgtgcagagagacatctgcacccctcagttctggcgacagcagatgtcc 1860
Oy 1861 ccggggaatgtgataataagatactcagaactg 1894
Db 1861 ccggggaatgtgataataagatactcagaactg 1894

RESULT 8
: Sequence 14, Application US/09064645
: GENERAL INFORMATION:
: APPLICANT: PATRICIA A. BILLING-MEDEL
: APPLICANT: MAURICE COHEN
: APPLICANT: TRACEY L. COLPITTS
: APPLICANT: PAULA N. FRIEDMAN
: APPLICANT: MICHAEL R. KLASS
: APPLICANT: LISA ROBERTS-RAPP
: APPLICANT: JOHN C. RUSSELL
: APPLICANT: STEPHEN D. STROUPE
: TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
: TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
: NUMBER OF SEQUENCES: 37
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Abbott Laboratories
: STREET: 100 Abbott Park Road
: CITY: Abbott Park
: STATE: IL
: COUNTRY: USA
: ZIP: 60064-3500
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSeq for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/064,645
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/845,995
: FILING DATE: 25-APR-1997
: ATTORNEY/AGENT INFORMATION:
: NAME: Becker, Cheryl L.
: REGISTRATION NUMBER: 35,441
: REFERENCE/DOCKET NUMBER: 6085.US.P1
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 847/935-1729
: TELEFAX: 847/938-2623
: TELEX:
: INFORMATION FOR SEQ ID NO: 14:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1902 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: US-09-064-645-14

```

Query Match 98.6%; Score 1868.4; DB 14; Length 1902;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1876; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 gtcgactctctccacacatctctgactctgacgtctgacactgcccccaagacc 60  
DB 8 GTCTGACTTCTCTCCACACATTCCTGCACTCTGCGGTGTCACACTGCCCCACACACC 67

QY 61 agtctccaaagcctgtctgacagctccctgcaagccccctcaagttggtgcttgcaagtg 120  
DB 68 AGTCTCTCAAGCCCTGTGCGAGCTCCCTGCAAGCCCTCAAGTTGGGCTTGCAAGGTG 127

QY 121 ccagcaagagcctgtggtggtggtggtggtggtggtggtggtggtggtggtggtggtg 180  
DB 128 CCACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 187

QY 181 gccaacagcagccccccttgaggtgagccagcccccaagttgcaaacctgagtgctctc 240  
DB 188 TCAGAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 247

QY 241 gccaacagcctgtggtggtggtggtggtggtggtggtggtggtggtggtggtggtg 300  
DB 248 GCCACGAGCCCTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 307

QY 301 cagtgagcctgagctgagccacacactctccgagccctgtgaggttgagctgcaagcaag 360  
DB 308 CAGTGGGCTGAGCTGCGCACACCTCTCCGGGCTCGGAGTTGGCACATGACACAGACAG 367

QY 361 ctcccctggagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 420  
DB 368 CTCCCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 427

QY 421 cagtgagcagcccggtgtgagcagcagcagcagcagcagcagcagcagcagcagcagc 480  
DB 428 CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 487

QY 481 ggtgtcgcgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 540  
DB 488 GGTGTCCGCGACAGCTGTGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 547

QY 541 ctgtagagtcacagctcagccagcagcagcagcagcagcagcagcagcagcagcagc 600  
DB 548 CTGAGATGCCAGTCCACCCGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 607

QY 601 ctttgacatgctgtacccctgagagcagcagcagcagcagcagcagcagcagcagcag 660  
DB 608 CTTTGACATGCTGTACCCCTGAGAGACAGCTGGGAGGAGGAGGAGGAGGAGGAGGAGG 667

QY 661 tcgagagagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 720  
DB 668 TCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 727

QY 721 gggcagcctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 780  
DB 728 GGGCAGCCTGAGCTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 787

QY 781 gcaatcagatggtgtggtggtggtggtggtggtggtggtggtggtggtggtggtg 840  
DB 788 GCAATCAGATGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 847

QY 841 catcacgcagatcccatgagctgagcagcagcagcagcagcagcagcagcagcagcagc 900  
DB 848 CATCACGCGAGATCCCATGAGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 907

QY 901 agagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 960  
DB 908 AGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 967

QY 961 gctgtgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1020  
DB 968 GCTGTGAGCAGATGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1027

QY 1021 gcaagcccaactgagacatctggaagtlcaagcgccctgagatgaagaagcgagcctacctg 1080  
DB 1028 GCAGCCCACTGTGACATCTGGAAGTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1087

QY 1081 ggcattacactgtgtcctgacacagtgagagagctgagcagcagcagcagcagcagcagc 1140  
DB 1088 GGCATTACACTGTGCTCTGACCAATGAGAGAGTGAAGCCGACAGAGAGTGAAGTGAAGT 1147

QY 1141 atcatgtccggagcagccatccacactgtgagcttctcctaagagtlgtactcaagcc 1200  
DB 1148 ATCATGTCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1207

QY 1201 ccagagctatgagcagcttcaatlaagtggtcacaacaaagagagagcagcctcaaaatga 1260  
DB 1208 CCACAGCTATGGCGCTTCAATTAAGTGTCTCAACAGAGAGGAGGAGGAGGAGGAGGAG 1267

QY 1261 ggaactagcccaagtgagccggctgtgtggtggtggtggtggtggtggtggtggtggt 1320  
DB 1268 GGACTAGCCCAAGGTGGCGGCTGTGGGAGATCCGACAGAGGAGGAGGAGGAGGAGGAGG 1327

QY 1321 ggaagagctgagccgctccatccagctcttaagaagagagcagcagcagcagcagcag 1380  
DB 1328 GCAGAGCTGAGCGGCTTCATCCGACAGTATACAGAGAGGAGGAGGAGGAGGAGGAGG 1387

QY 1381 catctccagcagcctctctacacagctgagccacccatctgagctgagcagcagcagcag 1440  
DB 1388 CATCTCCAGGCGCTCGCTACAGAGTTCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1447

QY 1441 tgaacccgagccttaagagggcctctctctgagcagcagcagcagcagcagcagcagcag 1500  
DB 1448 TGAACCCGCGCTTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1507

QY 1501 ggggaaagcagcagctgtgctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1560  
DB 1508 GGGGAAAGCGGAGTGTGCTGT 1567

QY 1561 gcaacccaactgtcccaagggagatagtgctctctgtgagccttgaggccttgaggagcag 1620  
DB 1568 GCAACCAACTGCCCCAGGAGGAGTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1627

QY 1621 gtgtctctctctcagccacagctgtccctctgagagagcagagagagagagagcagcagc 1680  
DB 1628 GTGTCTCTCTCTCAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1687

QY 1681 caaacctgctctgtaccacagcaatctcagagagagcagcagcagcagcagcagcagcag 1740  
DB 1688 CAACACTGCTGTGAGCCCGACGATTTCCAGAGAGAGGAGGAGGAGGAGGAGGAGGAG 1747

QY 1741 acaagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1800  
DB 1748 ACAAGAGCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1807

QY 1801 ccaacactgagcagtgagcagagagacatctgacccctcaagttggtgagcagagagtg 1860  
DB 1808 CCACACTGTGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1867

QY 1861 cccggagatgataaagataagataagataagataagataagataagataagataag 1894  
DB 1868 CCCGGAGATGATATATAAGATACTAGAGAACTG 1901

RESULT 9  
US-09-064-645-15  
; Sequence 15, Application US/09064645  
; GENERAL INFORMATION:  
; APPLICANT: PATRICIA A. BILLING-MEDEL  
; APPLICANT: MADRICE COHEN  
; APPLICANT: TRACEY L. COLPITTS  
; APPLICANT: PAULA N. FRIEDMAN  
; APPLICANT: MICHAEL R. KLASIS  
; APPLICANT: LISA ROBERTS-RAPP  
; APPLICANT: JOHN C. RUSSELL



[illegible]

```

RESULT 10
US-09-567-970-14
? Sequence 14, Application US/09567970
? GENERAL INFORMATION:
? APPLICANT: Abbott Laboratories
? APPLICANT: Billing-Medel, Patricia A.
? APPLICANT: Colpits, Tracey L.
? APPLICANT: Friedman, Paula N.
? APPLICANT: Klass, Michael R.
? APPLICANT: Roberts-Rapp, Lisa
? APPLICANT: Russell, John C.
? APPLICANT: Scroupe, Stephen D.
? TITLE OF INVENTION: REAGENTS AND METHODS USEFUL FOR
? TITLE OF INVENTION: DETECTING DISEASES OF THE PROSTATE
? FILE REFERENCE: 6085 US P2
? CURRENT APPLICATION NUMBER: US/09/567,970
? CURRENT FILING DATE: 2000-05-10
? PRIOR APPLICATION NUMBER: US 09/064,645
? PRIOR FILING DATE: 1998-04-22
? PRIOR APPLICATION NUMBER: US 08/845,995
? PRIOR FILING DATE: 1997-04-25
? NUMBER OF SEQ ID NOS: 37
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 14
? LENGTH: 1902
? TYPE: DNA
? ORGANISM: Homo sapien
US-09-567-970-14

```

Query Match	98.6%;	Score 1868.4;	DB 22;	Length 1902;
Best Local Similarity	99.2%;	Pred. No. 0;		
Matches 1878; Conservative	0;	Mismatches 16;	Indels 0;	Gaps 0;

Qy 1 gttggaactctctccagagaaattctctgactctgcgtgtgcacacgtgcggcccaaaagacc 60  
Db 8 gtcgagactctctccagagaaattctctgactctgcgtgtgcacacgtgcggcccaaaagacc 67  
Qy 61 agtctctccaaagctcgtgcgcagagctccctctgcagagccctcaagttgtggccttcgcaagtg 120  
Db 68 agtctctccaaagctcgtgcgcagagctccctctgcagagccctcaagttgtggccttcgcaagtg 127  
Qy 121 ccagcagagcagagccctctggtgtgtatgagagatctctctaaagcagcagagccctctgagacc 180  
Db 128 ccagcagagcagagccctctggtgtgtatgagagatctctctaaagcagcagagccctctgagacc 187

QY	181	gcaacacagccacaccccttgaaagtgagcagaccccccagctgacaaactgagtgctgacccct	240
Db	188	lcaagagagccacccctctgaaagtgagccaaagcccccagtgagcaaacctgagtgctgacccct	247
QY	241	gcaacacagccacaccccttgacccctctgctccgctctgagcccccagaaatgacctgactgaaagacacgc	300
Db	248	gcaacacagccaccccttgacccctctgctccgctctgagcccccagaaatgacctgactgaaagacacgc	307
QY	301	cagtgagcctcagctgccccacaactctctcccgagccctctgagtgagctgacatgacagaaag	360
Db	308	cagtgagcctcagctgccccacaactctctcccgagccctctgagtgagtgagctgacatgacagaaag	367
QY	361	ctccctctgagcaacagtgagactaaacagacacagacgcaccccaagcccaagcagtgagcatgtgg	420
Db	368	ctccctctgagcaacagtgagactaaacagacacagacgcaccccaagcccaagcagtgagcatgtgg	427
QY	421	cagcgcacagcccggtgtctgagcagcgtatctcccaagccactctcctgctgctcccccagacac	480
Db	428	cagcgcacagcccggtgtctgagcagcgtatctcccaagccactctcctgctgctcccccagacac	487
QY	481	ggtgtccgagagcaacagctctgaaagagagcagcagcgggagcagtgagctctccgaagagacgcga	540
Db	488	ggtgtccgagagcaacagctctgaaagagagcagcagcgggagcagtgagctctccgaagagacgcga	547
QY	541	ctgagagctccaggtccacacccgcacacgcgcagccagcagcgggacctgtctccgcactctgacactta	600
Db	548	ctgagagctccaggtccacacccgcacacgcgcagccagcagcgggacctgtctccgcactctgacactta	607
QY	601	ctttgaaactgtctgtaacccctgagagacagcagctgagcagacaaagcccccgtgggcacagacg	660
Db	608	ctttgaaactgtctgtaacccctgagagacagcagctgagcagacaaagcccccgtgggcacagacg	667
QY	661	tcggagagagagcaacacttgaaacacagccctgagcagctgaccccggtctcatgtgaacagccaaagcccccacgc	720
Db	668	tcggagagagagcaacacttgaaacacagccctgagcagctgaccccggtctcatgtgaacagccaaagcccccacgc	727
QY	721	gggcaacccctggaacttggtgtcccggtcggtgtgacacttgagagagcaactgcgtgagagcaggt	780
Db	728	gggcaacccctggaacttggtgtcccggtcggtgtgacacttgagagagcaactgcgtgagagcaggt	787
QY	781	gcaagatcaatgtgtgtgtggcgaaagtgactcaagagacatacagagacgcgccttgaaagctgtctaa	840
Db	788	gcaagatcaatgtgtgtgtggcgaaagtgactcaagagacatacagagacgcgccttgaaagctgtctaa	847
QY	841	catcaacgcagatcccaactgagactgagagcccccaagcaaatgtgtcaagaaagtgtgctctgtgagac	900
Db	848	catcaacgcagatcccaactgagactgagagcccccaagcaaatgtgtcaagaaagtgtgctctgtgagac	907
QY	901	agagagcaacaataacccggtgtcccccacatgggacaaagcctctccagagagcctgtgagcgggacaaaga	960
Db	908	agagagcaacaataacccggtgtcccccacatgggacaaagcctctccagagagcctgtgagcgggacaaaga	967
QY	961	gctgtgctgcacatgtctcagaaagaaagcaagttctccgcacagcgcctccgcctctgagtgagagatgtct	1020
Db	968	gctgtgctgcacatgtctcagaaagaaagcaagttctccgcacagcgcctccgcctctgagtgagagatgtct	1027
QY	1021	gcaacgcaccaactggaacatctggaagatcagcgcctgtgatatgaaagagcgcgtactcaactgcgg	1080
Db	1028	gcaacgcaccaactggaacatctggaagatcagcgcctgtgatatgaaagagcgcgtactcaactgcgg	1087
QY	1081	ggcgagttcaactagtgctcctcgaaacagtgagagagagactggaacccagacagcagagtgagctac	1140
Db	1088	ggcgagttcaactagtgctcctcgaaacagtgagagagagactggaacccagacagcagagtgagctac	1147
QY	1141	atcatgctcccggtgcagccacatccactgtgacagttctctcaagagagtgtctactcaagcc	1200
Db	1148	atcatgctcccggtgcagccacatccactgtgacagttctctcaagagagtgtctactcaagcc	1207
QY	1201	ccaaagcgtatgagccgcgtctcaattagtgctgtcacaacaagaggaagagagatcttaaaaattga	1266
Db	1208	ccaaagcgtatgagccgcgtctcaattagtgctgtcacaacaagaggaagagagatcttaaaaattga	1266
QY	1261	ggaactccaaagcttgagcccggtctgtgtgggctatccgcgaagaaacgcgtcccgccatgaactg	1320

QY	1021	gacagcccaacttgagacacttctggaaatgaagagcgctctgataagaagaagcggactcaacccgg	1080
Db	1028	gacagcccaacttggacacatctggaaagctcagagccctggaaatgaaagagctggactcaacccgg	1087
QY	1081	ggcgaattcaactactctgtgctctgacacagctggagagagctctggaccgaagaagcggagctggagctc	1140
Db	1088	ggcgaattcaactactctgtgctctgacacagctggagagagctctggaccgaagaagcggagctggagctc	1147
QY	1141	atcatgctccgggacagcccatcactctgtggcagttcctctcaagaagatttgctactcaagcc	1200
Db	1148	atcatgctccgggacagcccatcactctctgtggcagttcctctcaagaagatttgctactcaagcc	1207
QY	1201	ccacagcgtatgtgcgctcttcatttaagctgtgctctcaacaagaaggaaaggagatcttcaaaattga	1260
Db	1208	ccacagcgtatgtgcgctcttcatttaagctgtgctctcaacaagaaggaaaggagatcttcaaaattga	1267
QY	1261	ggactccagcccaagcttgagcccgctctgtctgtgggcatctcggacaagaacccgtcccgcatatgactg	1320

|||||  
Db 1268 ggaactagccacgggtgagccggtctgtgggcatccgcaagaacggtccgcatbaacta 1327  
QY 1321 cgacaagctgagccgtctccatccatccgacagctctacaagaaggagcatccggaaccaga 1380  
Db 1328 cgacaagctgagccgtctccatccatccgacagctctacaagaaggagcatccggaaccaga 1387  
QY 1381 catctccagcgctctgtctacacagttctgcaacccatctgagtgcttgcccaaggcc 1440  
Db 1388 catctccagcgctctgtctacacagttctgcaacccatctgagtgcttgcccaaggcc 1447  
QY 1441 tgaacccgcccctcaggggcccctctctctgctgcccctcctcagcccaaggccctagatg 1500  
Db 1448 tgaacccgcccctcaggggcccctctctctgctgcccctcctcagcccaaggccctagatg 1507  
QY 1501 ggggaaaaagcgagtgctgctctgctgctgctgacccctcagagcccaaggtcagggaggg 1560  
Db 1508 ggggaaaaagcgagtgctgctctgctgctgctgacccctcagagcccaaggtcagggaggg 1567  
QY 1561 gcaaccaactgcccccaaggggatagtgctctctgagccctcagagcccaaggtcagggaggg 1620  
Db 1568 gcaaccaactgcccccaaggggatagtgctctctgagccctcagagcccaaggtcagggaggg 1627  
QY 1621 ggtctctccctcagggcccaagctgctcccttgaggagagagagagagagagctctccc 1680  
Db 1628 ggtctctccctcagggcccaagctgctcccttgaggagagagagagagagagagctctccc 1687  
QY 1681 caaacctgctctgaccccaagcatctcagagcagagcctacagaaaggcagtgactcg 1740  
Db 1688 caaacctgctctgaccccaagcatctcagagcagagcctacagaaaggcagtgactcg 1747  
QY 1741 acaaaagccacagcgagctcagagcctctctgctcctacccctgctccctccatctgca 1800  
Db 1748 acaaaagccacagcgagctcagagcctctctgctcctacccctgctccctccatctgca 1807  
QY 1801 ccacacctgagcatggtgcagggagagacatctgcacccctagttggcagcagggagtgcc 1860  
Db 1808 ccacacctgagcatggtgcagggagagacatctgcacccctagttggcagcagggagtgcc 1867  
QY 1861 cccgggaatgagataaagatactagagaactg 1894  
Db 1868 cccgggaatgagataaagatactagagaactg 1901

## RESULT 11

US-09-567-970-15  
; Sequence 15, Application US/09567970

## ; GENERAL INFORMATION:

; APPLICANT: Abbott Laboratories  
; APPLICANT: Billing-Medel, Patricia A.  
; APPLICANT: Colpitts, Tracey L.  
; APPLICANT: Friedman, Paula N.  
; APPLICANT: Klass, Michael R.  
; APPLICANT: Roberts-Rapp, Lisa  
; APPLICANT: Russell, John C.  
; APPLICANT: Stroupe, Stephen D.  
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL FOR  
; FILE REFERENCE: 6085, US, P2  
; CURRENT APPLICATION NUMBER: US/09/567, 970  
; CURRENT FILING DATE: 2000-05-10  
; PRIOR APPLICATION NUMBER: US 09/064, 645  
; PRIOR FILING DATE: 1998-04-22  
; PRIOR APPLICATION NUMBER: US 08/845, 995  
; PRIOR FILING DATE: 1997-04-25  
; NUMBER OF SEQ ID NOS: 37  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 15  
; LENGTH: 1902  
; TYPE: DNA  
; ORGANISM: Homo sapien

US-09-567-970-15

Query Match 98.6%; Score 1868.4; DB 22; Length 1902;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1878; Conservative 0; Mismatches 16; Indels 0; Gaps 0;  
QY 1 gctgacatctctccagacatctctgcatctctcggtgctacacactgccccacagacc 60  
Db 8 gctgacatctctccagacatctctgcatctctcggtgctacacactgccccacagacc 67  
QY 61 agctctccaagcctgctctccagctccctcctcagacccctcagatgtggccttgcaagtg 120  
Db 68 agctctccaagcctgctctccagctccctcctcagacccctcagatgtggccttgcaagtg 127  
QY 121 ccaagcagcagcccttgagctgggtgagtgagggactccctacagcagcagcccttgagacc 180  
Db 128 ccaagcagcagcccttgagctgggtgagtgagggactccctacagcagcagcccttgagacc 187  
QY 181 gcaaccaacccccccttgaggtggtgcagagggcccaagtgagcaccctgagtgctctc 240  
Db 188 tcaagaggccccccttgaggtggtgcagagggcccaagtgagcaccctgagtgctctc 247  
QY 241 gcaaccaacccccccttgaggtggtgcagagggcccaagtgagcaccctgagtgagcagc 300  
Db 248 gcaaccaacccccccttgaggtggtgcagagggcccaagtgagcaccctgagtgagcagc 307  
QY 301 cagtgagctcagctgagccacacctctcccgccctgagtggtgacatgacagacag 360  
Db 308 cagtgagctcagctgagccacacctctcccgccctgagtggtgacatgagcagacag 367  
QY 361 ctcccttgagcagccagcagcttaacagacagcccgagcccaaacagcagcagcagtg 420  
Db 368 ctcccttgagcagccagcagcttaacagacagcccgagcccaaacagcagcagcagtg 427  
QY 421 cagcgccagcccggtctgagcagcgtatccccaagcaccctctgctgcccccgagac 480  
Db 428 cagcgccagcccggtctgagcagcgtatccccaagcaccctctgctgcccccgagac 487  
QY 481 ggtgctcgagcagcgtctgaggaagcgagcagcggtgagtggtgctcagagaaacgga 540  
Db 488 ggtgctcgagcagcgtctgaggaagcgagcagcggtgagtggtgctcagagaaacgga 547  
QY 541 ctggaggtccagctccaccccgagccagccagcagcagctgctccgctctcagacccctcta 600  
Db 548 ctggaggtccagctccaccccgagccagccagcagcagctgctccgctctcagacccctcta 607  
QY 601 ctgtgacatgctgtaacccttgagagcagcagctgggacagcccaagcccttggtgccaag 660  
Db 608 ctgtgacatgctgtaacccttgagagcagcagctgggacagcccaagcccttggtgccaag 667  
QY 661 tcggagagagcacaactgacagcagctgagcagtgcccggtcatctgacagccaagcccaagc 720  
Db 668 tcggagagagcacaactgagcagcagctgagcagtgcccggtcatctgacagccaagcccaagc 727  
QY 721 gggacccctgagactggtgcccggcgagcgtgactcttgagagagacactccgctggagcaggt 780  
Db 728 gggacccctgagactggtgcccggcgagcgtgactcttgagagagacactccgctggagcaggt 787  
QY 781 ggaactcactggtggtgagcagtgctcaagagacatcagacggcctcgaagctgcaac 840  
Db 788 ggaactcactggtggtgagcagtgctcaagagacatcagacggcctcgaagctgcaac 847  
QY 841 catcaacagacatcccatgagctgagcccaagcaatgtgcagaagtggctcctctgagac 900  
Db 848 catcaacagacatcccatgagctgagcccaagcaatgtgcagaagtggctcctctgagac 907  
QY 901 agagcacaataacggcgtgcccccatatggagagcccttcagagagctgggggcaagga 960  
Db 908 agagcacaataacggcgtgcccccatatggagagcccttcagagagctgggggcaagga 967  
QY 961 gctgtgcacatgtctgagagagcagttccgcagcagcgtcgcagccttggtggtgagtgct 1020  
Db 968 gctgtgcacatgtctgagagagcagttccgcagcagcgtcgcagccttggtggtgagtgct 1027



[illegible]

```

/ APPLICANT: Xuan, Jian-ai
/ TITLE OF INVENTION: DNA Encoding a Novel ETS Polypeptide
/ FILE REFERENCE: 51790AUSM1
/ CURRENT APPLICATION NUMBER: US/09/718,159
/ CURRENT FILING DATE: 2000-11-21
/ PRIOR APPLICATION NUMBER: 60/168,182
/ PRIOR FILING DATE: 1999-11-30
/ NUMBER OF SEQ ID NOS: 11
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 1
/ LENGTH: 1918
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (422)..(1429)
US-09-718-159-1

Query Match          98.6%; Score 1868.4; DB 28; Length 1918;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1878; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY      1 gctctgactctctccagcaacatctccttgacactctgcccgtgtccacactgcccacagacc 60
Db      7 gctcgaactctctccagcacatctcctgactctgcccgtgtccacactgcccacagacc 66

QY      61 atctctcccaagcctgtctgcaagcctctctctgcaagccctcagttcgttgcttgccacggtg 120
Db      67 agtctcccaagcctgtctgcaagcctctctctgcaagccctcagttcgttgcttgccacggtg 126

QY      121 ccagcagcagcagccttgaggtctgaggggtagaggagactccctacaaagcagcagccttgagacc 180
Db      127 ccagcagcagcagccttgaggtctgaggggtagaggagactccctacaaagcagcagccttgagacc 186

QY      181 gccaccagccaccctcttgagggtgagcaggcccccaagtgtgccaaacctgagtgctgctct 240
Db      187 tcagagaggccaccctcttgagggtgagcaggcccccaagtgtgccaaacctgagtgctgctct 246

QY      241 gccaccagcctctgcttgagcccttggttctcgctctgccccccagagctgcttgcttgagagacc 300
Db      247 gccaccagcctctgcttgagcccttggttctcgctctgccccccagagctgcttgcttgagagacc 306

QY      301 cagtgagctcagaactgaccacaacctctctccgggccccttgagagttggtacatgcagcagagacc 360
Db      307 cagtgagctcagaactgaccacaacctctctccgggccccttgagagttggtacatgcagcagagacc 366

QY      361 ctcccttgagcaccagcagctaacagacacagccgcacagcccccaaacagcagcgcatggg 420
Db      367 ctcccttgagcaccagcagctaacagacacagccgcacagcccccaaacagcagcgcatggg 426

QY      421 cagcgccagcccggtggtctgtagcagcgtatacccccaagcacaacctctgcttccccccagacc 480
Db      427 cagcgccagcccggtggtctgtagcagcgtatacccccaagcacaacctctgcttccccccagacc 486

QY      481 ggtgtctcgcggaacaggctcttgagaaagagcagccagccgaggggtcagtggtctctgaaagagcgg 540
Db      487 ggtgtctcgcggaacaggctcttgagaaagagcagccagccgaggggtcagtggtctctgaaagagcgg 546

QY      541 ctggaagctccagatccaaccgccaagcccgagagcagggtcgtctcgcgctctgacactctctcta 600
Db      547 ctggaagctccagatccaaccgccaagcccgagagcagggtcgtctcgcgctctgacactctctcta 606

QY      601 ctttgacatgctgtataccctcgagagacagacagcgtcggtgagcgaagggccctcggtggccagcag 660
Db      607 ctttgacatgctgtataccctcgagagacagcgtcggtgagcgaagggccctcggtggccagcag 666

QY      661 tcgggagagagccaccactgagaccagcttgagagagtgccccggtcatcttgacaagccagccccaac 720
Db      667 tcgggagagagccaccactgagagagcttgagagagtgccccggtcatcttgacaagccagccccaac 726

QY      721 gggacacccctggaactgtgtgctccggcggtgtgacacttgtagggagacactcgtcttgagacaggt 780

```



[illegible]

```

QY 1861 ccggggaatgataataagaatactagagaactg 1894
      |||||||
Db 1867 ccgggaatgataataagaatactagagaactg 1900

RESULT 13
US-09-570-593-12
; Sequence 12, Application US/09570593
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Xin, Hong
; APPLICANT: Harrowe, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: source
; LOCATION: (1)...(3317)
; OTHER INFORMATION: GSEF-encoding sequence with promoter (Figs. 2A-2B)
; NAME/KEY: promoter
; LOCATION: (1)...(1380)
; OTHER INFORMATION: Promoter
; NAME/KEY: CDS
; LOCATION: (1815)...(2819)
; OTHER INFORMATION: GSEF coding sequence
US-09-570-593-12

Query Match 98.5%, Score 1865.2; DB 22; Length 3317;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1876; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1 gctgactctccccaagacaatctctgtaacttgcggtgtccaaactgtcccaagacc 60
      |||||||
Db 1400 gctgactctccccaagacaatctctgtaacttgcggtgtccaaactgtcccaagacc 1459

QY 61 agctctcaagctctgtccaaagtcccttcgaagccctcaagtttagtgacctgcaagtg 120
      |||||||
Db 1460 agctctcaagctctgtccaaagtcccttcgaagccctcaagtttagtgacctgcaagtg 1519

QY 121 ccagcaggcagccttgggtggttagggagatcccttaacagcagccagcccttagacc 180
      |||||||
Db 1520 ccagcaggcagccttgggtggttagggagatcccttaacagcagccagcccttagacc 1579

QY 181 gccacacagcaccctttagagtggtggtggtggtggtggtggtggtggtggtggtggt 240
      |||||||
Db 1580 tcaagagggcaccctctgaggtgtggtggtggtggtggtggtggtggtggtggtggt 1639

QY 241 gccacacagccttgcgtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 300
      |||||||
Db 1640 gccacacagccttgcgtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 1699

QY 301 cagtggtcctagctgtcccaacacctctcccggtcccttgagttggaactgtcagcagaag 360
      |||||||
Db 1700 cagtggtcctagctgtcccaacacctctcccggtcccttgagttggaactgtcagcagaag 1759

QY 361 ctcccttggtcaccagcagcttaacagaaacaaacggtggtggtggtggtggtggtggtggt 420
      |||||||
Db 1760 ctcccttggtcaccagcagcttaacagaaacaaacggtggtggtggtggtggtggtggtggt 1819

QY 421 cagcgcacacccgggtgcttaagcaggtatcccccagccacccctcctgtgtccccccaagc 480
      |||||||

```



Query Match 98.3%; Score 1861.4; DB 33; Length 1905;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1871; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 gtctactctccacagacatctctgaactctgcgtctcaaacactgcccacagacc 60  
DB 15 GTCGACTCTCTCCAGACATCTCTGACTCTGCTGTCACACTGCCCCACAGACC 74

QY 61 agtctcaagcctgtctgcagctccctgcgaagccctcagttggtccttgcaagtg 120  
DB 75 AGTCCTCAAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 134

QY 121 ccagagagcagccctgtggtggtggtggtggtggtggtggtggtggtggtggtg 180  
DB 135 CCAGAGGAGCCCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTG 194

QY 181 gccacagccaccccttgaggtgtgcaagccctcagttggtccttgcaagtgctc 240  
DB 195 TCAGAGGGCCACCCCTTGAAGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 254

QY 241 gccacagcctgtctgtgcctgtgtcgcgtgcgtgcgtgcgtgcgtgcgtgcgt 300  
DB 255 GCCACAGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 314

QY 301 cagtgctcagctgcagccacccctctccgcgtgcgtgcgtgcgtgcgtgcgtgc 360  
DB 315 CAGTGGCTCAGCTGCCACACCTCTTCCGCGCCCTGAGTGTGCACTGACAGACAG 374

QY 361 ctctctgtgacacagcagctaaacagacagccgcagcccaagcagcagcagtggt 420  
DB 375 CTCCCTGGGACACAGGAGCTAACAGACAGCCGACGCAACAGCAGCGGCAAGG 434

QY 421 cagcgccagccggtgtgagcagctatcccccagccacccctctgtgcctgcagc 480  
DB 435 CAGCCCGACGCGGCTGCTGAGCAGCTATCCCCAGCCACTCTGCTGCTGCTGCTG 494

QY 481 ggtgtcgagacagctgtgagaaagcagcagcagcagcagcagcagcagcagcag 540  
DB 495 GGTGTGCGGAGACGCTTGAGAAAGCGGAGCGGAGCTGAGTGTGCTGAGAACGG 554

QY 541 ctgaggtctccagctcagccgcagccgcagcagcagcagcagcagcagcagcagc 600  
DB 555 CTGGAGTCCCACTCCACCCGACGCGGAGCAGGAGGCTGTGCTGCTGCTGCTG 614

QY 601 ctctgacatgtctgacccctgagagcagcagcagcagcagcagcagcagcagcag 660  
DB 615 CTTTGACATGCTGTACCTCGAGAGACAGCAGCTGGGACGCAAGGCCCTGGG 674

QY 661 tgggagagagcagcagctgacagcagcagcagcagcagcagcagcagcagcagc 720  
DB 675 TGGGAGGAGCCACTGAGAGAGCCTGAGACAGTGGCCGCTCAATTAAGCCCAAG 734

QY 721 gggcagccctgagctgtgtgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 780  
DB 735 GGGCAGCCCTGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 794

QY 781 ggaagtcacatgt 840  
DB 795 GGAAGTCATGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 854

QY 841 catcacagcagatcccatgagctgagccagcagcagcagcagcagcagcagcagcag 900  
DB 855 CATCACCGAGATCCCATGAGAGTGAAGCCACAGCAATGTGAGAAAGTGCTCTG 914

QY 901 aagagcacaatacagcgtgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 960  
DB 915 AAGAGCACATACGCGCTGCGCCCATGAGCAAGGCTTCCAGAGAGCTGCGGGCA 974

QY 961 gctgtgcagcagctgcaggaagcagcttcgcagcagcagcagcagcagcagcagc 1020  
DB 975 GCTGTGCGCATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1034

QY 1021 gccagcccaactgagacatctggaagtgacggcgtgtgataagagcagcagcagcagc 1080  
DB 1035 GCAGCCCGACCTGGACATCTGGAAGTCAAGCGGCTGGATGTAAGAGGAGCTTCACTG 1094

QY 1081 ggcagctacactgt 1140  
DB 1095 GGCAGTTCAGTACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1154

QY 1141 atcatgtccggagcagccatccactgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1200  
DB 1155 ATCATGTCTCGGGAGCCGACATCACTGTGTGCTGCTGCTGCTGCTGCTGCTG 1214

QY 1201 ccagagctatgagcagctcatgagtggtgtgtgtgtgtgtgtgtgtgtgtgtgt 1260  
DB 1215 CCAGAGCTATGCGCTTCAATTAAGTGTGCTTCAAGAGAGGAGGCTTCTCAAA 1274

QY 1261 ggaactaagccagctgtgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 1320  
DB 1275 GGAAGTTCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1334

QY 1321 ggaagcagctgagcagctccatccagcagcagcagcagcagcagcagcagcagc 1380  
DB 1335 GGAAGTTCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1394

QY 1381 catctccagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1440  
DB 1395 CATCTCCAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1454

QY 1441 tgaagccgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1500  
DB 1455 TGAAGCCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1514

QY 1501 ggggaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1560  
DB 1515 GGGGAAAGCGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1574

QY 1561 gcaacaaactgcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1620  
DB 1575 GCAACAACTGCGCCAGGAGGAGTATGAGGCTGCTGCTGCTGCTGCTGCTGCTG 1634

QY 1621 gtcgtctccctcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1680  
DB 1635 GTGCTTCCCTCAGGCGCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1694

QY 1681 caaacactgcctgtgacccagcagcagcagcagcagcagcagcagcagcagcagc 1740  
DB 1695 CAACACTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1754

QY 1741 aagaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1800  
DB 1755 ACAAAGCGCAGAGGAGTCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1814

QY 1801 ccacacctgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1860  
DB 1815 CCACACTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1874

QY 1861 cccggagagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1887  
DB 1875 CCGGAGATGATTAATAAGATCTAG 1901

RESULT 15  
US-60-209-009-74  
; Sequence 74, Application US/60209009  
; GENERAL INFORMATION:  
; APPLICANT: Paris, Mary  
; APPLICANT: Pearson, Cecelia I.  
; TITLE OF INVENTION: GENES EXPRESSED IN PROSTATE CANCER  
; FILE REFERENCE: PA-0027 P  
; CURRENT APPLICATION NUMBER: US/60/209, 009  
; CURRENT FILING DATE: 2000-06-01  
; NUMBER OF SEQ ID NOS: 501

```

: SOFTWARE: PERL Program
: SEQ ID NO 74
: LENGTH: 1907
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: Incyte ID No: 234340.7
: IS-60-209-009-74

```

Query Match	97.0%;	Score 1837.8;	DB 59;	Length 1907;
Best Local Similarity	99.0%;	Pred. No. 0;		
Matches 1670; Conservative	0;	Mismatches 17;	Indels 2;	Gaps 2;

OY	1	g t c g a g a c t c c c t c c a g a c a a t c c c t c g a c t c t g c c g t g t c a c a a c a t g c c c a a g a a c c	60
Dd	15	g t c g a g a c t c c c t c c a g a c a a t c c t c g a c t c t g c c g t g t c a c a a t g c c c a a g a c c c	74
OY	61	a g t c c t c c a a g a c t g c t g c a g a c t - c c c t g c a a g c c c c t a a g t c t g g c t c t g c a a g t	119
Dd	75	a g t c c t c c a a g a c t g c t g c a g a c t g c c c t c g a a g c c c t a a g t c t g g c t c t g c a a g t	134
OY	120	g c a a g c a a g c a a g c c c t - g g g c t g a g g g t a a g g a c t c c c t a a g a g a c g a a g a c c c g a a a	178
Dd	135	g c a a g c a a g c a a g c c t g a g g c t g a g g t a a g g g a g a c t c c c t a a a g a c a c g a a g c c c g a a	194
OY	179	c c g a c c a a a g a c c a c c c t c t g a a g g t g a g c a a g c c c c a a g a g a c a a c t g a g t g c t g c c t	238
Dd	195	c c t c a a g a g g c a c a c c c t g a g g t g a g c a a g c c c c a g a t g a c a a g c t g a t g c t g c c t	254
OY	239	c t g c a a c a a g a c c c t g c t g a g c c c c t a c g c t c t g a g c c c c a a a t g a c t g c t g c t g a a a c a c	298
Dd	255	c t g c a a c a a g a c c t g a c t g a g c c c c c a g t c c c c g a t g c c c c a a t g a c t g a g c t g a a a c a	314
OY	299	g c a a g t g a g c c c a a g c t g c c a c a c c t c t c c g g c c c c t g a g t c t g a c a t g a a g a a g a c	358
Dd	315	g c a a g t g a g c c t c a a g c t g a c a c a c c t c t c c g c c c c t g a g t t g a g a c t g a c a g a a c	374
OY	359	a g c t c c c t g a g c a a c a a g a c a g c t a a a g a a c a a g c c g a c c c a a a a a a a a a c a g c a a g	418
Dd	375	a g c t c c c t g a g c a a c a a g a c a a c t a a a g a a c a a g c c g a c c c a a a a a a a a a c a g c a a g	434
OY	419	g g c a g a c g c a a g c c c g g t g c t g a g a a g a t a c c c c a a g a c a c c t c t g c t g a c c c c c a a c	478
Dd	435	g g c a a g a c a a g c c g g t g c t g a g a a g a t a c c c c a a g a c a c c t c t g c t g a c c c c g a c	494
OY	479	a c g t g t c g c g a a g a c a g c t t g a g a a a a g c g a c a g g g g a g t g a t g g t c c c a g a a c a g	538
Dd	495	a c g g t g t c g c g a a a a g a g c t t g a a a a a g c g a c a g c g g g a g t g a g t g c t c g a a a a a c g g	554
OY	539	g a c t g a g t c c c a a g t a c a c c c c g a c c c a a g a a a g a c t t g t c c g a c t c t a a g a c t c c c	598
Dd	555	g a c t g a g t a c c c a a g t a c a c c c g a c c a a g a a g a g c t g t c c g a c t c t a c t c c c	614
OY	599	t a c t t g a c a t g c t g t a c c c t g a a g a a c a g a c t g g g a g c a a g a g c c c c t g g g c a g c	658
Dd	615	t a c t t g a c a t g c t g t a c c c t g a a g a a a a g a c a g c t g a g c a a a g a g c c c c t g g g c a a g c	674
OY	659	a g t c a g g a g a g a c c a c c c t g a a c a a g a c t g a a g a g t g c c c g t t a c t a t g a a a g c a a g c c a a	718
Dd	675	a g t c a g g a g a g a c c a c c t g a a a g a c t g a a g a g t g c c c g t t a t a t g a c a a g c a a g c c a a	734
OY	719	g c g a g a c a c c t g a c t g t a g c c c g c g g g c t g a c c t t g a a g a g a c a c t g c t g a g a a g	778
Dd	735	g c g a g a c a c c t g a c t g t a g c c c g c g g g c t g a c c t t g a a g a g a c a c t g c t g a g a a g	794
OY	779	g t g c a g a c a t g a t g t g t g g a a g t c t c a a a g a a c t a a g a a g a g c t c a a g c t g a g c t c	838
Dd	795	g t g c a g a c a t g a t g t g t g g a a g t g t c a a g a a c a t c a a g a c a g c c t g c a a g c t g c t c	854
OY	839	a a c a c a c c a a g a t a c c a t g a a c t g a a c c c c a a t a t g c a a g a g t g a t c t c t g g	898

Dh	855	aacatcacccgcagatcccatctgacttgagccccccgaatctgtgcagaaggtgtgcttcctgttg	914
Qy	899	acagagccacaaataccagctgtccccccatgtggcaagcccttcagagagcttgcggtgcaag	938
Dh	915	acagagccacaaataccagctgtccccccatgtggcaagcccttcagagagcttgcggtgcaag	974
Qy	959	gagctgtgcacatgtctggagagacagttcccgccagcgctcccgccgtgtgtggatgtg	1018
Dh	975	gagctgtgcacatgtctggagagacagttcccgccagcgctcccgccgtgtgtggatgtg	1034
Qy	1019	ctgcacgcccacatgtgacatcttggaagtccagcggcctgtgaltgaaagcggacttcaact	1078
Dh	1035	ctgcacgcccacatgtgacatcttggaagtccagcggcctgtgaltgaaagcggacttcaact	1094
Qy	1079	ggggagattccaactagtctgtctgcacacagtgaaagagagctgtgaccgcacagcgagtgac	1138
Dh	1095	ggggagattccaactagtctgtctgcacacagtgaaagagagctgtgaccgcacagcgagtgac	1154
Qy	1139	tcatcatgtctccgggtcagcccatccacactgtgcagttcctccaagagatgtctactcaag	1198
Dh	1155	tcatcatgtctccgggtcagcccatccacactgtgcagttcctccaagagatgtctactcaag	1214
Qy	1199	cccccaagctatgtgcggctgtcattaggtgtgtctcaacaaaggagagggcattccaaatc	1258
Dh	1215	cccccaagctatgtgcggctgtcattaggtgtgtctcaacaaaggagagggcattccaaatc	1274
Qy	1259	gagagctcaagcccaggtgtgcccggctgtgtgggtcaltccgcaagaacgltcccgccatgaa	1318
Dh	1275	gagagctcaagcccaggtgtgcccggctgtgtgggtcaltccgcaagaacgltcccgccatgaa	1334
Qy	1319	tgcagcaagctgtagcggctgtccatccgcgcagctcttaacaaaggagcaltcccggaaccca	1378
Dh	1335	tgcagcaagctgtagcggctgtccatccgcgcagctcttaacaaaggagcaltcccggaaccca	1394
Qy	1379	gacatctcccagcgctctgtctactcaagttctgtcaaccacatctgaatgtgcctgtgccaggg	1438
Dh	1395	gacatctcccagcgctctgtctactcaagttctgtcaaccacatctgaatgtgcctgtgccaggg	1454
Qy	1439	cctgcgaaccccgccctcagaggggcctctctccctgtgcctgcagcccttcacagccccttgaga	1498
Dh	1455	cctgcgaaccccgccctcagaggggcctctctctccctgtgcctgcagcccttcacagccccttgaga	1514
Qy	1499	tgggtggaaaaagcggcagtggtgtctctgtcctgtcctctcagacttcagaggcccaggttcaaggag	1558
Dh	1515	tgggtggaaaaagcggcagtggtgtctctgtcctgtcctctcagacttcagaggcccaggttcaaggag	1574
Qy	1559	gggcacaaccaactcgcgccacggggagatatgtgtctcttggtggccttcgggacccattgggcag	1618
Dh	1575	gggcacaaccaactcgcgccacggggagatatgtgtctcttggtggccttcgggacccattgggcag	1634
Qy	1619	gggtgtcttctctctcctcagggcccagctgtcctccctctgtagagaaacagaggagacaaggtctc	1678
Dh	1635	gggtgtcttctctctcctcagggcccagctgtcctccctctgtagagaaacagaggagacaaggtctc	1694
Qy	1679	cccaacaaccctgcctctgtgaccccaagcatttcacagagacagagcctcaagaagggcagtgact	1738
Dh	1695	cccaacaaccctgcctctgtgaccccaagcatttcacagagacagagcctcaagaagggcagtgact	1754
Qy	1739	cgacaaaggccacaggtccagttccaggcctctctctgtctccatcccccgtcctcccatctg	1798
Dh	1755	cgacaaaggccacaggtccagttccaggcctctctctgtctccatcccccgtcctcccatctg	1814
Qy	1799	cagcacaccctgcacatgtgtgcagggagacatctgcacccctcagtttgggcagccagaggtg	1858
Dh	1815	cagcacaccctgcacatgtgtgcagggagacatctgcacccctcagtttgggcagccagaggtg	1874
Qy	1859	cccccggaatgtgataataagatctag	1887
Dh	1875	cccccggaatgtgataataagatctag	1903

Search completed: August 6, 2002, 20:49:31

Wed Aug 7 09:11:23 2002

us-09-841-963a-1.rnp

Page 19

Job time: 9120 sec

---



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 19:53:21 ; Search time 3498.6 Seconds  
(without alignments)  
11328.777 Million cell updates/sec

Title: US-09-841-963a-1  
Perfect score: 1894  
Sequence: 1 gctgactctcccccagcac.....ataaagatactagagaactg 1894

Scoring table: IDENTITY-NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues  
Total number of hits satisfying chosen parameters: 705160

Minimum DB seq length: 10  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenBank :  
1: gb\_ba :  
2: gb\_hvg :  
3: gb\_in :  
4: gb\_om :  
5: gb\_ov :  
6: gb\_pat :  
7: gb\_ph :  
8: gb\_pl :  
9: gb\_pr :  
10: gb\_ro :  
11: gb\_sts :  
12: gb\_sy :  
13: gb\_un :  
14: gb\_vi :  
15: em\_da :  
16: em\_fun :  
17: em\_hum :  
18: em\_in :  
19: em\_mu :  
20: em\_om :  
21: em\_or :  
22: em\_ov :  
23: em\_pat :  
24: em\_ph :  
25: em\_pl :  
26: em\_ro :  
27: em\_sts :  
28: em\_un :  
29: em\_vi :  
30: em\_hvg\_hum :  
31: em\_hvg\_inv :  
32: em\_hvg\_other :  
33: em\_hlgo\_inv :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
------------	-------	-------------	--------	----	-------------

C	1	34	1.8	34	6	AX048158	AX048158 Sequence
	2	31	1.6	31	6	AX048157	AX048157 Sequence
	3	23	1.2	23	6	AX175520	AX175520 Sequence
	4	23	1.2	23	6	AX175524	AX175524 Sequence
	5	23	1.2	23	6	AX175525	AX175525 Sequence
	6	23	1.2	23	6	AX175526	AX175526 Sequence
	7	22.8	1.2	50	6	AX199688	AX199688 Sequence
	8	22.6	1.2	48	6	AX221945	AX221945 Sequence
	9	21.6	1.1	31	6	AX249190	AX249190 Sequence
C	10	21.4	1.1	49	10	MUSJHCD6	M64562 Mouse JH-cd
	11	21.2	1.1	45	6	A05116	A05116 Oligonucleo
	12	21.2	1.1	48	9	HSTCK6x45	269575 H.sapiens m
	13	21.2	1.1	48	9	HSTCK6x45	269547 H.sapiens m
C	14	21.2	1.1	50	6	AX250311	AX250311 Sequence
	15	21.2	1.1	21	6	AX175518	AX175518 Sequence
C	16	21	1.1	37	6	AX139078	AX139078 Sequence
	17	21	1.1	41	6	AX327072	AX327072 Sequence
	18	20.8	1.1	48	6	AX221416	AX221416 Sequence
	19	20.8	1.1	48	6	AX221427	AX221427 Sequence
	20	20.8	1.1	48	6	AX274492	AX274492 Sequence
	21	20.8	1.1	49	6	AX279693	AX279693 Sequence
C	22	20.8	1.1	50	6	AR123173	AR123173 Sequence
C	23	20.8	1.1	50	6	AX165853	AX165853 Sequence
	24	20.6	1.1	48	6	AX221428	AX221428 Sequence
C	25	20.6	1.1	48	6	AX320747	AX320747 Sequence
	26	20.6	1.1	50	9	HUMTCRVJ46	L39584 Homo sapien
	27	20.4	1.1	48	6	AX221643	AX221643 Sequence
	28	20.4	1.1	48	6	AX221644	AX221644 Sequence
	29	20.4	1.1	48	6	AX221665	AX221665 Sequence
	30	20.4	1.1	48	6	AX274490	AX274490 Sequence
	31	20.4	1.1	48	6	AX274552	AX274552 Sequence
	32	20.4	1.1	50	6	AR003562	AR003562 Sequence
	33	20.4	1.1	50	6	AX057285	AX057285 Sequence
C	34	20.2	1.1	37	6	A46812	A46812 Sequence 9
	35	20.2	1.1	42	6	AR021417	AR021417 Sequence
	36	20.2	1.1	42	6	AR042979	AR042979 Sequence
	37	20.2	1.1	42	6	AR161282	AR161282 Sequence
	38	20.2	1.1	42	6	I43661	I43661 Sequence 30
	39	20.2	1.1	42	6	I62970	I62970 Sequence 67
	40	20.2	1.1	42	6	I88723	I88723 Sequence 67
	41	20.2	1.1	45	9	S63845	S63845 (DJ(TM4-del
C	42	20.2	1.1	46	6	AR140182	AR140182 Sequence
C	43	20.2	1.1	46	6	AR173249	AR173249 Sequence
C	44	20	1.1	36	6	AX007193	AX007193 Sequence
C	45	20	1.1	36	6	AX007365	AX007365 Sequence

## ALIGNMENTS

RESULT 1	AX048158/c	AX048158	34 bp	DNA	Linear	PAT 15-DEC-2000
LOCUS	AX048158	Sequence 11 from Patent WO0070092.				
DEFINITION	AX048158					
ACCESSION	AX048158					
VERSION	AX048158.1	GI:11876974				
KEYWORDS						
SOURCE						
ORGANISM						
		synthetic construct.				
		artificial sequence.				
REFERENCE		1 (bases 1 to 34)				
AUTHORS		Kaufmann, J. and Xin, H.				
TITLE		Expression of ets-domain proteins in cancer				
JOURNAL		Patent: WO 0070092-A 11 23-NOV-2000;				
		Chiron Corporation (US)				
FEATURES						
source		Location/Qualifiers				
		1..34				
		/organism="synthetic construct"				
		/db_xref="taxon:32630"				
		/note="GSEF-specific primer"				

BASE COUNT	5 a	10 c	7 g	12 t
ORIGIN				

Query Match 1.8%; Score 34; DB 6; Length 34;  
Best Local Similarity 100.0%; Pred. No. 7.1e+04;  
Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1850 ccagagatgccccgggaatgataaagata 1883  
|||||  
Db 34 CCAGAGATGCCCCGGGAATGATATAAGATA 1

RESULT 2  
AX048157 AX048157 31 bp DNA linear PAT 15-DEC-2000  
LOCUS Sequence 10 from Patent WO0070092.  
DEFINITION AX048157  
ACCESSION AX048157  
VERSION AX048157.1 GI:11876973  
KEYWORDS  
SOURCE synthetic construct.  
ORGANISM synthetic construct.  
REFERENCE 1 (bases 1 to 31)  
AUTHORS Kaufmann,J. and Xin,H.  
TITLE Expression of ets-domain proteins in cancer  
JOURNAL Patent: WO 0070092-A 10 23-NOV-2000;  
Chiron Corporation (US)  
FEATURES  
source Location/Qualifiers  
1..31  
/organism="synthetic construct"  
/db\_xref="taxon:32630"  
/note="GSEF-specific primer"

BASE COUNT 8 a 9 c 13 g 1 t  
ORIGIN  
Query Match 1.6%; Score 31; DB 6; Length 31;  
Best Local Similarity 100.0%; Pred. No. 2.3e+05;  
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1552 caggaagggcaaccactgccccagggga 1582  
|||||  
Db 1 CAGGAGCGGCGACACACTGCCCGAGGGGA 31

RESULT 3  
AX175520 AX175520 23 bp DNA linear PAT 03-JUL-2001  
LOCUS Sequence 5 from Patent WO0142472.  
DEFINITION AX175520  
ACCESSION AX175520  
VERSION AX175520.1 GI:14598659  
KEYWORDS  
SOURCE synthetic construct.  
ORGANISM synthetic construct.  
REFERENCE 1 (bases 1 to 23)  
AUTHORS Harkins,R., Lin,R.J., Luke,M., Montecarlo,F., Parkes,D., Parry,G.,  
Steindbrecher,R., van Heult,P.T. and Xuan,J.A.  
TITLE Dna encoding a novel prost-ets polypeptide  
JOURNAL Patent: WO 0142472-A 5 14-JUN-2001;  
SCHERING AKTIENGESellschaft (DE)  
FEATURES  
source Location/Qualifiers  
1..23  
/organism="synthetic construct"  
/db\_xref="taxon:32630"  
/note="probe"

BASE COUNT 4 a 12 c 2 g 5 t  
ORIGIN

Query Match 1.2%; Score 23; DB 6; Length 23;  
Best Local Similarity 100.0%; Pred. No. 5.4e+06;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1783 cctgcctccattctgacacaca 1805

|||||  
Db 1 CCTGCCTCCATTCTGACACACA 23

RESULT 4  
AX175524 AX175524 23 bp mRNA linear PAT 03-JUL-2001  
LOCUS Sequence 9 from Patent WO0142472.  
DEFINITION AX175524  
ACCESSION AX175524  
VERSION AX175524.1 GI:14598660  
KEYWORDS  
SOURCE synthetic construct.  
ORGANISM synthetic construct.  
REFERENCE 1 (bases 1 to 23)  
AUTHORS Harkins,R., Lin,R.J., Luke,M., Montecarlo,F., Parkes,D., Parry,G.,  
Steindbrecher,R., van Heult,P.T. and Xuan,J.A.  
TITLE Dna encoding a novel prost-ets polypeptide  
JOURNAL Patent: WO 0142472-A 9 14-JUN-2001;  
SCHERING AKTIENGESellschaft (DE)  
FEATURES  
source Location/Qualifiers  
1..23  
/organism="synthetic construct"  
/db\_xref="taxon:32630"  
/note="antisense"

BASE COUNT 4 a 8 c 5 g 6 t  
ORIGIN

Query Match 1.2%; Score 23; DB 6; Length 23;  
Best Local Similarity 100.0%; Pred. No. 5.4e+06;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1161 tccacctgtggcagttcctcaag 1183  
|||||  
Db 1 TCCACCTGTGGCAGTTCCTCAAG 23

RESULT 5  
AX175525 AX175525 23 bp mRNA linear PAT 03-JUL-2001  
LOCUS Sequence 10 from Patent WO0142472.  
DEFINITION AX175525  
ACCESSION AX175525  
VERSION AX175525.1 GI:14598661  
KEYWORDS  
SOURCE synthetic construct.  
ORGANISM synthetic construct.  
REFERENCE 1 (bases 1 to 23)  
AUTHORS Harkins,R., Lin,R.J., Luke,M., Montecarlo,F., Parkes,D., Parry,G.,  
Steindbrecher,R., van Heult,P.T. and Xuan,J.A.  
TITLE Dna encoding a novel prost-ets polypeptide  
JOURNAL Patent: WO 0142472-A 10 14-JUN-2001;  
SCHERING AKTIENGESellschaft (DE)  
FEATURES  
source Location/Qualifiers  
1..23  
/organism="synthetic construct"  
/db\_xref="taxon:32630"  
/note="antisense"

BASE COUNT 8 a 7 c 6 g 2 t  
ORIGIN

Query Match 1.2%; Score 23; DB 6; Length 23;  
Best Local Similarity 100.0%; Pred. No. 5.4e+06;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1734 tgactgacaaagccacagcca 1756  
|||||  
Db 1 TGACTGACAAAGCCACAGCCA 23

RESULT 6



	Query Match	1.28:	Score 22.8:	DB 6:	Length 50:
Best Local Similarity	66.0%	Pred.	NO.4.8e+05;		
Matches 33;	Conservative	0;	Mismatches 17;	Indels	0;
Gaps					
OY	485	tccgcgacagccttggagaagcgagcacagcgaggcagtggcttcgaag-534			
Dd	1	TCCGGCGCACAGCTGGGCGCGCAGGGCGGCGGTGTGGTTACGCATCG-50			

Query Match	1.1%	Score 21.6;	DB 6;	Length 31;
Best Local Similarity	80.0%	Pred. No. 8.6e+06;		
Matches	24;	Conservative	1;	Mismatches 5;
Indels			0;	Gaps 0;
QY	59	ccaagtcctccaagcagctgcgtccagctccct	88	
Db	1	CCAAGTCTCCACAGCCYGGTGTCACTCTCCT	30	
RESULT	10			
MUSJHCD6/c				
LOCUS	MUSJHCD6	49 bp	DNA	linear
DEFINITION	Mouse JH-Cdelta locus sequence.			
ACCESSION	M64562			
VERSION	M64562.1	GI:198478		

KEYWORDS	C-region: immunoglobulin; immunoglobulin heavy chain; switch recombination junction.
SOURCE	Mus musculus (strain BALB/c, sub_species domesticus) DNA.
ORGANISM	Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE	1 (bases 1 to 49) Owens, J.D., Jr., Finkelstein, F.D., Mountz, J.D. and Mushinski, J.F. Nonhomologous recombination at sites within the mouse JH-Cdelta locus accompanies Cmu deletion and switch to immunoglobulin D secretion
AUTHORS	Mol. Cell. Biol. 11, 5660-5670 (1991)
TITLE	92017847 This reference reports bases 1 to 25. Location/Qualifiers
JOURNAL	1..49
MEDLINE	/organism="Mus musculus"
COMMENT	/strain="BALB/c"
FEATURES	/sub_species="domesticus"
SOURCE	/db_xref="taxon:10090"
	/cell_line="KMD8"
	/cell_type="Hybridoma"
BASE COUNT	7 a 17 c 14 g 11 t
ORIGIN	
Query Match	1.1%; Score 21.4; DB 10; Length 49;
Best Local Similarity	66.0%; Pred. No. 8.3e+06;
Matches	31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
Oy	277 cccagatgcctgctgcagacacgcagatgcctcagctccacaccc 323
Db	49 ccagatgctggctggcgcagacagacagcttgcctgctgacccacac 3
RESULT 11	
LOCUS	A05116 45 bp DNA linear PAT 04-MAY-1993
DEFINITION	Oligonucleotide U7 for bovine growth hormone.
ACCESSION	A05116
VERSION	A05116.1 GI:345003
KEYWORDS	
SOURCE	synthetic construct.
ORGANISM	artificial sequence.
REFERENCE	1 (bases 1 to 45)
AUTHORS	
TITLE	METHOD FOR THE PRODUCTION OF BOVINE GROWTH HORMONE USING A SYNTHETIC GENE
JOURNAL	Patent: WO 8805078-A 13 14-JUL-1988;
FEATURES	Location/Qualifiers
source	1..45
	/organism="synthetic construct"
	/db_xref="taxon:32630"
BASE COUNT	8 a 17 c 10 g 10 t
ORIGIN	
Query Match	1.1%; Score 21.2; DB 6; Length 45;
Best Local Similarity	76.5%; Pred. No. 9.1e+06;
Matches	26; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
Oy	1691 ctctgaccccgacattccagagcagagcctaca 1724
Db	1 ctctgaccccgacattccagagcagagcctca 34
RESULT 12	
HSTCK6X45	48 bp mRNA linear PRI 05-FEB-1997
LOCUS	H.sapiens mRNA for T cell receptor beta chain functional region (clone K6-45).
DEFINITION	
ACCESSION	Z69575

VERSION	269575.1	GI:1770552
KEYWORDS	diversity region; joining region; T cell receptor; variable region.	
SOURCE	human.	
ORGANISM	<i>Homo sapiens</i>	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 48)	
AUTHORS	Naserke,H.E., Durinovic-Bello,I., Seidel,D. and Ziegler,A.G. The T-cell receptor beta chain CD $\beta$ 3 region of BV8S1/BJ155 transcripts in type 1 diabetes	
TITLE	Immunogenetics 45 (2), 87-96 (1996)	
JOURNAL	97113296	
MEDLINE	2 (bases 1 to 48)	
REFERENCE	Naserke,H.E. Direct Submission Submitted (02-FEB-1996) Naserke H.E., Diabetes Research Institute, Koelner Platz 1, D-80804 Muenchen, FRG	
AUTHORS	Location/Qualifiers	
TITLE	1..48	
JOURNAL	/organism="Homo sapiens"	
FEATURES	/isolate="healthy control WS" /db_xref="taxon:9606" /tissue.type="peripheral blood" /cell_type="lymphocytes" /clone="K6-45" /note=HLA type: HLA-A31, 1; Cw3, 3; B62, 55; DRB1*1301, 0401; DRB3*0202, -; DOA1*0103, 0301; DOB1*0603, 0302; DPA1*-*, 01; DPB1*0301, 0201"	
Source	1..11 1..11 /gene="V beta 8.1" <1..11 /gene="V beta 8.1" 12..28 /note="N-D-N region" 29.. . >48 /gene="J beta 1.5" 29..48 /gene="J beta 1.5" 8 a k a l3 c 16 g 11 t	
BASE COUNT	g	
ORIGIN	Query Match 1.1%; Score 21.2; DB 9; Length 48;	
	Best Local Similarity 69.0%; Pred. No. ge+06;	
Matches	29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;	
OY	651 ggagccagcagtggaggagaccactgcacgctgacagt 652	
Dd	2 GTGCCAGCAGCGCCGGCGGTAAATGACATCACCCCAGCATTT 43	
RESULT_13	HSTRK6X45 48 bp mRNA linear PRI 05-FEB-1997	
HSTRK6X45	LOCUS DEFINITION H.sapiens mRNA for T cell receptor beta chain functional region (clone K6-45). Z69547 269547.1 GI:1770714 diversity region; joining region; T cell receptor; variable region. human. <i>Homo sapiens</i> Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 48) Naserke,H.E., Durinovic-Bello,I., Seidel,D. and Ziegler,A.G. The T-cell receptor beta chain CD $\beta$ 3 region of BV8S1/BJ155 transcripts in type 1 diabetes Immunogenetics 45 (2), 87-96 (1996) 97113296 2 (bases 1 to 48) Naserke,H.E. Direct Submission Submitted (02-FEB-1996) Naserke H.E., Diabetes Research Institute,	
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		
MEDLINE		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		





GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 20:55:46 ; Search time 311.92 Seconds  
(without alignments)  
10425.224 Million cell updates/sec

Title: US-09-841-963a-1

Perfect score: 1894  
Sequence: 1 gctgactctcccccagcacc.....ataaagatracatagaactg 1894

Scoring table:  
IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 1900032

Minimum DB seq length: 10  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :  
1: /SID55/gcgdata/geneseq/geneseq-emb1/NA1980.DAT:\*  
2: /SID55/gcgdata/geneseq/geneseq-emb1/NA1981.DAT:\*  
3: /SID55/gcgdata/geneseq/geneseq-emb1/NA1982.DAT:\*  
4: /SID55/gcgdata/geneseq/geneseq-emb1/NA1983.DAT:\*  
5: /SID55/gcgdata/geneseq/geneseq-emb1/NA1984.DAT:\*  
6: /SID55/gcgdata/geneseq/geneseq-emb1/NA1985.DAT:\*  
7: /SID55/gcgdata/geneseq/geneseq-emb1/NA1986.DAT:\*  
8: /SID55/gcgdata/geneseq/geneseq-emb1/NA1987.DAT:\*  
9: /SID55/gcgdata/geneseq/geneseq-emb1/NA1988.DAT:\*  
10: /SID55/gcgdata/geneseq/geneseq-emb1/NA1989.DAT:\*  
11: /SID55/gcgdata/geneseq/geneseq-emb1/NA1990.DAT:\*  
12: /SID55/gcgdata/geneseq/geneseq-emb1/NA1991.DAT:\*  
13: /SID55/gcgdata/geneseq/geneseq-emb1/NA1992.DAT:\*  
14: /SID55/gcgdata/geneseq/geneseq-emb1/NA1993.DAT:\*  
15: /SID55/gcgdata/geneseq/geneseq-emb1/NA1994.DAT:\*  
16: /SID55/gcgdata/geneseq/geneseq-emb1/NA1995.DAT:\*  
17: /SID55/gcgdata/geneseq/geneseq-emb1/NA1996.DAT:\*  
18: /SID55/gcgdata/geneseq/geneseq-emb1/NA1997.DAT:\*  
19: /SID55/gcgdata/geneseq/geneseq-emb1/NA1998.DAT:\*  
20: /SID55/gcgdata/geneseq/geneseq-emb1/NA1999.DAT:\*  
21: /SID55/gcgdata/geneseq/geneseq-emb1/NA2000.DAT:\*  
22: /SID55/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT:\*  
23: /SID55/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT:\*  
24: /SID55/gcgdata/geneseq/geneseq-emb1/NA2002.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	34	1.8	34	22 AAC83265	GSEF specific PCR
C 2	31	1.6	31	22 AAC83264	GSEF specific PCR
C 3	24.6	1.3	42	20 AA35839	Antisense oligonuc
C 4	23.6	1.2	47	21 AA25828	Human map-related
C 5	23.6	1.2	50	22 AAL34612	Human SNP oligonuc
C 6	23	1.2	23	22 AAD07340	Human transcriptio
C 7	23	1.2	23	22 AAD07341	Antisense oligo #1
C 8	23	1.2	23	22 AAD07342	Antisense oligo #2
C 9	23	1.2	23	22 AAD07343	Antisense oligo #3

C 10	22.8	1.2	50	22 AAL31921	Human SNP oligonuc
C 11	22.8	1.2	50	22 AA89837	Human coding sequ
C 12	22.6	1.2	48	23 ABK07387	Human NOGO Ambery
C 13	22.4	1.2	50	22 AAL28314	Human SNP oligonuc
C 14	22.4	1.2	50	22 AAL34308	Human SNP oligonuc
C 15	22	1.2	45	22 AAD19606	Mutagenic PCR prim
C 16	22	1.2	45	22 AAD19607	Mutagenic PCR prim
C 17	22	1.2	45	22 AAF74532	Human MKK3 site-di
C 18	22	1.2	45	22 AAF74533	Human MKK3 site-di
C 19	22	1.2	45	22 AAC64157	Human MKK mutageni
C 20	22	1.2	45	22 AAC64158	Hepatoma AS-30D Ty
C 21	21.8	1.2	49	18 AAT80517	Human SNP oligonuc
C 22	21.8	1.2	50	22 AAL32325	Human SNP oligonuc
C 23	21.6	1.1	45	22 AAF60332	PDGF- $\beta$ receptor bl
C 24	21.4	1.1	39	12 AAO11438	Probe #4 complemen
C 25	21.2	1.1	36	20 AAT23808	Human Kv6.2 DNA fr
C 26	21.2	1.1	50	22 AAL29118	Human SNP oligonuc
C 27	21	1.1	21	22 AAD07338	Human transcriptio
C 28	21	1.1	37	22 AAF56968	FIV gene cloning r
C 29	21	1.1	50	22 AAL34241	Human SNP oligonuc
C 30	20.8	1.1	29	22 AAA04697	Polymorphic fragme
C 31	20.8	1.1	48	23 ABR06858	Human NOGO Ambery
C 32	20.8	1.1	48	23 ABR06859	Human NOGO Ambery
C 33	20.8	1.1	49	23 ABA10736	Human NOGO Ambery
C 34	20.8	1.1	50	17 AAT40111	Tail adaptor oligo
C 35	20.8	1.1	50	19 AA939429	Human Mer receptor
C 36	20.8	1.1	50	19 AA939430	Humanised anti-HM1
C 37	20.8	1.1	50	20 AA559472	Humanised anti-HM1
C 38	20.8	1.1	50	20 AA559473	Primer used in con
C 39	20.8	1.1	50	23 ABL01057	Human SNP invovin
C 40	20.6	1.1	48	23 ABR06870	Human NOGO Ambery
C 41	20.4	1.1	31	22 AAL30781	Human single nucle
C 42	20.4	1.1	45	21 AAC81266	Human/mouse histon
C 43	20.4	1.1	47	21 AA265894	Human map-related
C 44	20.4	1.1	48	23 ABR07085	Human NOGO Ambery
C 45	20.4	1.1	48	23 ABR07086	Human NOGO Ambery

## ALIGNMENTS

RESULT 1	
ID AAC83265/C	standard; DNA; 34 BP.
AC AAC83265;	
XX	
DT 16-MAR-2001	(first entry)
XX	
DE GSEF specific PCR primer SEQ ID 11.	
XX	
KW Transcription factor; gland-specific Ets transcription factor; GSEF;	
KW metastatic potential; cancer; tumour; metastasis; breast; prostate;	
KW leukaemia; lymphoma; sarcoma; melanoma; chromosome 6p21.1-6p21.3;	
KW PCR primer; ss.	
XX	
OS Homo sapiens.	
XX	
PN WO200070092-A1.	
XX	
PD 23-NOV-2000.	
XX	
PF 12-MAY-2000; 2000WO-US31173.	
XX	
PR 14-MAY-1999; 99US-0134112.	
XX	
PA (CHIR) CHIRON CORP.	
XX	
PI Kaufmann J, Xin H, Harrowe G;	
XX	
DR WPI; 2001-041019/05.	
XX	
PT Detecting metastatic and potential metastatic cancerous cells, useful	

PT for diagnosing, prognosing, grading and staging of cancers by detecting  
 PT gland-specific Ets transcription factor gene product in a biological  
 PT sample from a cell

PS Example 7; Page 56; 95pp; English.

CC This invention relates to a method for the detection and determination of  
 CC the metastatic potential of a cell. The method comprises detecting a  
 CC gland-specific Ets transcription factor (GSEF) gene product in a test  
 CC sample. Detection of a GSEF gene product in the test sample in amount  
 CC lower than that in a normal cell, is indicative of a cell with high  
 CC metastatic potential. The method is useful for determining the metastatic  
 CC potential of a cell, for the diagnosis and prognosis of cancer as well as  
 CC grading and staging of cancers by detecting GSEF expression in a  
 CC biological test sample. The method may also be used to monitor patients  
 CC having a predisposition to develop a particular cancer. GSEF polypeptides  
 CC are useful for producing antibodies, in cancer diagnosis, prognosis,  
 CC grading, staging and management of breast and prostate tumours, and in  
 CC detecting polymorphisms in the sequence. GSEF genes and proteins are also  
 CC useful in gene therapy. GSEF gene product expression levels can be used  
 CC in conjunction with any tissue in which an alteration in GSEF gene  
 CC product expression levels is associated with development of a  
 CC cancer-associated phenotype. Cancers, which can be monitored include  
 CC cancers of the prostate, cervix, lung and colon, melanomas, colorectal  
 CC adenocarcinomas, Wilms' tumour, retinoblastoma, sarcomas, myosarcomas,  
 CC lung carcinomas, leukaemia, and lymphomas. The GSEF gene is located on  
 CC human chromosome 6, specifically at 6p21.1-6p21.3. The present sequence  
 CC represents a PCR primer specific for the human GSEF DNA sequence. The  
 CC primer is used for the chromosomal mapping of the GSEF gene.

XX Sequence 34 BP; 5 A; 10 C; 7 G; 12 T; 0 other;

Query Match 1.8%; Score 34; DB 22; Length 34;  
 Best Local Similarity 100.0%; Pred. No. 2.9e+02;  
 Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1850 ccaggagtcgcccggaatgataaagata 1883  
 ||||||||||||||||||||||||||||  
 Db 34 CCAAGACTGCCCGGGAATGATATAAGATA 1

#### RESULT 2

AAC83264 standard; DNA; 31 BP.

AC AAC83264;

DT 16-MAR-2001 (first entry)

DE GSEF specific PCR primer SEQ ID 10.

XX Transcription factor; gland-specific Ets transcription factor; GSEF;  
 KW metastatic potential; cancer; tumour; metastasis; breast; prostate;  
 KM leukemia; lymphoma; sarcoma; melanoma; chromosome 6p21.1-6p21.3;  
 KM PCR primer; ss.

XX Homo sapiens.

PN WO200070092-A1.

PD 23-NOV-2000.

PF 12-MAY-2000; 2000WO-US13173.

PR 14-MAY-1999; 99US-0134112.

PA (CHIR ) CHIRON CORP.

PI Kaufmann J, Xin H, Hartowe G;

DR WPI; 2001-041019/05.

PT Detecting metastatic and potential metastatic cancerous cells, useful  
 PT for diagnosing, prognosing, grading and staging of cancers by detecting  
 PT gland-specific Ets transcription factor gene product in a biological  
 PT sample from a cell

PS Example 7; Page 56; 95pp; English.

CC This invention relates to a method for the detection and determination of  
 CC the metastatic potential of a cell. The method comprises detecting a  
 CC gland-specific Ets transcription factor (GSEF) gene product in a test  
 CC sample. Detection of a GSEF gene product in the test sample in amount  
 CC lower than that in a normal cell, is indicative of a cell with high  
 CC metastatic potential. The method is useful for determining the metastatic  
 CC potential of a cell, for the diagnosis and prognosis of cancer as well as  
 CC grading and staging of cancers by detecting GSEF expression in a  
 CC biological test sample. The method may also be used to monitor patients  
 CC having a predisposition to develop a particular cancer. GSEF polypeptides  
 CC are useful for producing antibodies, in cancer diagnosis, prognosis,  
 CC grading, staging and management of breast and prostate tumours, and in  
 CC detecting polymorphisms in the sequence. GSEF genes and proteins are also  
 CC useful in gene therapy. GSEF gene product expression levels can be used  
 CC in conjunction with any tissue in which an alteration in GSEF gene  
 CC product expression levels is associated with development of a  
 CC cancer-associated phenotype. Cancers, which can be monitored include  
 CC cancers of the prostate, cervix, lung and colon, melanomas, colorectal  
 CC adenocarcinomas, Wilms' tumour, retinoblastoma, sarcomas, myosarcomas,  
 CC lung carcinomas, leukaemia, and lymphomas. The GSEF gene is located on  
 CC human chromosome 6, specifically at 6p21.1-6p21.3. The present sequence  
 CC represents a PCR primer specific for the human GSEF DNA sequence. The  
 CC primer is used for the chromosomal mapping of the GSEF gene.

XX Sequence 31 BP; 8 A; 9 C; 13 G; 1 T; 0 other;

Query Match 1.6%; Score 31; DB 22; Length 31;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+03;  
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1552 caggagggggaacacactgcccaaggggga 1582  
 ||||||||||||||||||||||||||||  
 Db 1 caggaggggggaacacactgcccaaggggga 31

#### RESULT 3

AAK35839/C standard; DNA; 42 BP.

AC AAK35839;

DT 14-JUL-1999 (first entry)

DE Antisense oligonucleotide for mammalian ACE mRNA.

XX Antisense oligonucleotide; mammalian; angiotensin converting enzyme;  
 KW ACE; hypertension; ss.

XX Synthetic.

PN WO9915643-A2.

PD 01-APR-1999.

PF 25-SEP-1998; 98WO-US20121.

PR 25-SEP-1997; 97US-0059661.

PA (UYFL ) UNIV FLORIDA.

PI Mohuczy D, Phillips MI;

DR WPI; 1999-276982/23.

XX New antisense oligonucleotide compositions

XX Claim 4; Page 16; 145pp; English.  
PS  
CC AAX35833-49 represent antisense oligonucleotides for mammalian  
CC angiotensin converting enzyme (ACE) mRNA. The antisense  
CC oligonucleotides can be used for treating or preventing  
CC hypertension. The antisense oligonucleotides can also be  
CC labeled and used for visualising ACE mRNA in a cell, and for  
CC producing transgenic animals.  
XX  
SQ Sequence 42 BP; 1 A; 17 C; 14 G; 10 T; 0 other;

Query Match 1.3%; Score 24.6; DB 20; Length 42;  
Best Local Similarity 76.9%; Pred. No. 2.9e+04;  
Matches 30; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
QY 392 gccgcagcccaaacagcagcgatggcgacgcccagc 430  
DB 39 GCGCGCAGCAGCAGCAGCAGCGCGCAGCGCAGCAGC 1

## RESULT 4

AAZ65828 standard; DNA; 47 BP.

AAZ65828;

11-SEP-2001 (first entry)

Human map-related diallelic marker SEQ ID NO:175.

Human genome; diallelic marker; high density disequilibrium map;  
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;  
KW haplotyping; hybridisation; identification; characterisation;  
KW diagnosis; single nucleotide polymorphism; SNP; ds.

OS Homo sapiens.

Key Location/Qualifiers  
FT Variation replace(24,G)  
FT /\*tag= a  
FT /standard\_name= "single nucleotide polymorphism"

WO954500-A2.

28-OCT-1999.

21-APR-1999; 99WO-IB00822.

21-APR-1998; 98US-0082614.

23-NOV-1998; 98US-0109732.

(GEST ) GENSET.

Cohen D, Blumenfeld M, Chumakov I;

WPI; 2000-013267/01.

Novel diallelic markers used to construct a high density disequilibrium  
map of the human genome -

Claim 1; Page 267; 2745pp; English.

AAZ65654 to AAZ69578 represent human diallelic markers from the present  
invention, which contain a polymorphic base at position 24 of their  
nucleotide sequences. AAZ69579 to AAZ77440 represent amplification  
primers for the diallelic markers. The diallelic markers of the  
invention have a variety of uses: they can be used for high density  
mapping of the human genome, and in complex association studies and  
haplotyping studies which are useful in determining the genetic basis  
for disease states. Compositions and methods of the invention can also  
be useful for the identification of the targets for the development of

CC pharmaceutical agents and diagnostic methods, as well as the  
CC characterisation of the differential efficacious responses to and side  
CC effects from pharmaceutical agents acting on a disease as well as other  
CC treatment.  
CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297  
CC and 3367, are not actually given a sequence in the sequence listing  
CC from the present invention.  
XX

SQ Sequence 47 BP; 6 A; 14 C; 16 G; 11 T; 0 other;

Query Match 1.2%; Score 23.6; DB 21; Length 47;  
Best Local Similarity 69.6%; Pred. No. 4.8e+04;  
Matches 32; Conservative 0; Mismatches 14; Indels 0; Gaps 0;  
QY 1484 agccagccctcgatgagatgggaaacggcagctgtgtctgtcct 1529  
DB 1 aggcagccctgtacctcgggaagcggctgtgtgtctgtgt 46

## RESULT 5

AAL34612/C standard; DNA; 50 BP.

AAL34612;

24-JAN-2002 (first entry)

Human SNP oligonucleotide #7820.

Immunosuppressive; immunostimulatory; antineoplastic; cytostatic;  
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;  
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;  
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;  
KW complement related protein; cytochrome; cytokine; interferon;  
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;  
KW multifactorial disease; autoimmune disease; infection;  
KW nervous system disease; ss.

OS Homo sapiens.

WO200147944-A2.

05-JUL-2001.

28-DEC-2000; 2000WO-US35498.

28-DEC-1999; 99US-0173419.

27-DEC-2000; 2000US-0173419.

(CURA-) CURAGEN CORP.

Shinkets RA, Leach M;

WPI; 2001-465210/50.

Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,  
oncogenes and histones, useful for diagnosing and treating, e.g.  
cancer, autoimmune diseases and infections -

Claim 1; Page 3652; 4143pp; English.

The present invention relates to oligonucleotides encoding polymorphic  
variants of proteins related to amylases, amyloid proteins, angiotensin,  
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,  
CC histones, kinases, colony stimulating factors, complement related  
CC proteins, cytochromes, kinases, cytokines, interferons, interleukins,  
CC G-protein coupled receptors and thioesterases. The present sequence is  
CC one such oligonucleotide. The oligonucleotides and the peptides encoded  
CC by them may be used in the prevention, diagnosis and treatment of  
CC diseases associated with inappropriate expression of the proteins listed  
CC above. Disorders that may be prevented, diagnosed and/or treated include  
CC multifactorial diseases with a genetic component, such as autoimmune

CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,  
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer  
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,  
CC leukemia), diseases of the nervous system and an infection of pathogenic  
CC organisms.

50 Sequence 50 BP; 8 A; 17 C; 18 G; 7 T; 0 other;

Query Match 1.2%; Score 23.6; DB 22; Length 50;  
Best Local Similarity 69.6%; Pred. No. 4.8e+04;  
Matches 32; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

OY 273 gcccccagatgcctgcacagacacgcacgcctcagctgcgc 318  
||||||| | ||||| | ||||| | ||||| | ||||| | |||||  
Db 47 CCCCCCAGCGCGCTGCGACTGCCACGAGATGTCACACAGAGTCC 2

RESULT 6  
AAD07340  
ID AAD07340 standard; DNA; 23 BP.

XX AAD07340;

DT 04-AUG-2001 (first entry)

DE Human transcription factor, prost-ets mRNA expressing Tagman probe.

KW Human; transcription factor protein; PROST-Ets; cytostatic; gene therapy;

KW vaccine; cancer; prostate; breast; ovary; benign prostatic hyperplasia;

KW antisense therapy; ribozyme therapy; therapeutic; cell proliferation; ss.

OS Homo sapiens.

XX Homo sapiens.

XX Key Location/Qualifiers

FT modified\_base 1 /\*tag- a

FT /mod\_base= OTHER

FT /note= "FAM-labelled Cytosine"

FT modified\_base 23 /\*tag- a

FT /mod\_base= OTHER

FT /note= "FAM-labelled Adenosine"

XX MO200142472-A2.

XX 14-JUN-2001.

XX 29-NOV-2000; 2000MO-USA2295.

XX 30-NOV-1999; 99US-0168182.

XX 21-NOV-2000; 2000US-0718159.

XX (SCHD ) SCHERING AG.

XX Harkins R, Lin RJ, Luke M, Montecarlo F, Parkes D, Parry G;

XX Steinbrecher R, Van Heult PT, Xuan J;

XX WPI; 2001-381692/40.

XX New transcription factor polypeptides, designated PROST-Ets

XX applications - useful for diagnostic, research and therapeutic

XX Example 2; Page 48; 74pp: English.

XX The invention relates to human transcription factor protein, designated

XX as PROST-Ets and its corresponding cDNA molecule. PROST-Ets proteins and

XX nucleic acids are useful for treating a disease-state in human patient,

XX such as prostate, breast and ovarian cancer which is associated with

XX inappropriate expression of PROST-Ets and where the patient is in need of

XX decreased levels or activity of PROST-Ets. PROST-Ets is useful for

CC diagnosing and treating diseases of cell proliferation, such as prostate  
CC cancer and benign prostatic hyperplasia. Prost-ets nucleic acids are used  
CC as DNA probes, as target for antisense and ribozyme therapy, as template  
CC for producing antisense polynucleotides, and as diagnostic reagent for  
CC research, biological, clinical and therapeutic purposes. Prost-ets DNA is  
CC also used in gene therapy. PROST-Ets protein is useful for generating  
CC antibodies, and for stimulating immune response in cells containing  
CC PROST-Ets proteins. The present DNA sequence is Tagman probe which is  
CC used for the expression of human transcription factor, prost-ets mRNA.

50 Sequence 23 BP; 4 A; 12 C; 2 G; 5 T; 0 other;

Query Match 1.2%; Score 23; DB 22; Length 23;  
Best Local Similarity 100.0%; Pred. No. 5.6e+04;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1783 cctgcctcccatctgcacacaca 1805  
||||||| | ||||| | ||||| | ||||| | ||||| | |||||  
Db 1 cctgcctcccatctgcacacaca 23

RESULT 7  
AAD07341  
ID AAD07341 standard; RNA; 23 BP.

XX AAD07341;

DT 04-AUG-2001 (first entry)

DE Antisense oligo #1 to evaluate human prost-ets in cell proliferation.

KW Human; transcription factor protein; PROST-Ets; cytostatic; gene therapy;

KW vaccine; cancer; prostate; breast; ovary; benign prostatic hyperplasia;

KW antisense therapy; ribozyme therapy; therapeutic; cell proliferation; ss.

OS Homo sapiens.

XX Homo sapiens.

XX Key Location/Qualifiers

FT modified\_base 1 /\*tag- a

FT /mod\_base= OTHER

FT /note= "FAM-labelled Cytosine"

XX MO200142472-A2.

XX 14-JUN-2001.

XX 29-NOV-2000; 2000MO-USA2295.

XX 30-NOV-1999; 99US-0168182.

XX 21-NOV-2000; 2000US-0718159.

XX (SCHD ) SCHERING AG.

XX Harkins R, Lin RJ, Luke M, Montecarlo F, Parkes D, Parry G;

XX Steinbrecher R, Van Heult PT, Xuan J;

XX WPI; 2001-381692/40.

XX New transcription factor polypeptides, designated PROST-Ets

XX applications - useful for diagnostic, research and therapeutic

XX Example 3; Page 56; 74pp: English.

XX The invention relates to human transcription factor protein, designated

XX as PROST-Ets and its corresponding cDNA molecule. PROST-Ets proteins and

XX nucleic acids are useful for treating a disease-state in human patient,

XX such as prostate, breast and ovarian cancer which is associated with

XX inappropriate expression of PROST-Ets and where the patient is in need of

XX decreased levels or activity of PROST-Ets. PROST-Ets is useful for

XX diagnosing and treating diseases of cell proliferation, such as prostate

XX cancer and benign prostatic hyperplasia. Prost-ets nucleic acids are used

XX as DNA probes, as target for antisense and ribozyme therapy, as template

XX for producing antisense polynucleotides, and as diagnostic reagent for

XX research, biological, clinical and therapeutic purposes. Prost-ets DNA is

XX also used in gene therapy. PROST-Ets protein is useful for generating

XX antibodies, and for stimulating immune response in cells containing



CC PROST-Ets proteins. The present DNA sequence is antisense oligonucleotide  
 CC which is used for evaluating the role of human transcription factor,  
 CC PROST-Ets in cell proliferation to reduce Prost-ets mRNA expression in  
 CC the selected prostate tumour cell lines.  
 XX  
 XX Sequence 23 BP; 4 A; 8 C; 5 G; 6 U; 0 other;

Query Match 1.2%; Score 23; DB 22; Length 23;  
 Best Local Similarity 73.9%; Pred. No. 5.6e+04;  
 Matches 17; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

OY 1161 tccacctgtgacgtctcctcaag 1183  
 :|||||:|||||:|||||:|||||:  
 Db 1 uccaccugugcagguccuccaag 23

RESULT 8  
 AAD07342  
 ID AAD07342 standard; RNA; 23 BP.  
 AC  
 XX AAD07342;

DT 04-AUG-2001 (first entry)

DE Antisense oligo #2 to evaluate human prost-ets in cell proliferation.

KW Human; transcription factor protein; PROST-Ets; cytostatic; gene therapy;  
 KW vaccine; cancer; prostate; breast; benign prostatic hyperplasia;  
 KW antisense therapy; ribozyme therapy; therapeutic; cell proliferation; ss.

OS Homo sapiens.

PN WO200142472-A2.

PD 14-JUN-2001.

PF 29-NOV-2000; 2000WO-US42295.

PR 30-NOV-1999; 99US-0168182.

PR 21-NOV-2000; 2000US-0718159.

PA (SCHD ) SCHERING AG.

PI Hartins R, Lin RJ, Luke M, Montecarlo F, Parkes D, Parry G;  
 PI Steinbrecher R, Van Heult PT, Xuan J;

DR WPI; 2001-381692/40.

PS New transcription factor polypeptides, designated PROST-Ets  
 PT polypeptides, useful for diagnostic, research and therapeutic  
 PT applications -

PS Claim 37; Page 56; 74pp; English.

CC The invention relates to human transcription factor protein, designated  
 CC as PROST-Ets and its corresponding cDNA molecule. PROST-Ets proteins and  
 CC nucleic acids are useful for treating a disease-state in human patient,  
 CC such as prostate, breast and ovarian cancer which is associated with  
 CC inappropriate expression of PROST-Ets and where the patient is in need of  
 CC decreased levels or activity of PROST-Ets. PROST-Ets is useful for  
 CC diagnosing and treating diseases of cell proliferation, such as prostate  
 CC cancer and benign prostatic hyperplasia. Prost-ets nucleic acids are used  
 CC as DNA probes, as target for antisense and ribozyme therapy, as template  
 CC for producing antisense polynucleotides, and as diagnostic reagent for  
 CC research, biological, clinical and therapeutic purposes. Prost-ets DNA is  
 CC also used in gene therapy. PROST-Ets protein is useful for generating  
 CC antibodies, and for stimulating immune response in cells containing  
 CC PROST-Ets proteins. The present DNA sequence is antisense oligonucleotide  
 CC which is used for evaluating the role of human transcription factor,  
 CC PROST-Ets in cell proliferation to reduce Prost-ets mRNA expression in  
 CC the selected prostate tumour cell lines.

SQ Sequence 23 BP; 8 A; 7 C; 6 G; 2 U; 0 other;

Query Match 1.2%; Score 23; DB 22; Length 23;  
 Best Local Similarity 91.3%; Pred. No. 5.6e+04;  
 Matches 21; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1734 tgactgcacaaagccacagca 1756  
 :|||||:|||||:|||||:|||||:  
 Db 1 ugacucgacaaagccacagca 23

RESULT 9  
 AAD07343  
 ID AAD07343 standard; RNA; 23 BP.  
 AC  
 XX AAD07343;

DT 04-AUG-2001 (first entry)

DE Antisense oligo #3 to evaluate human prost-ets in cell proliferation.

KW Human; transcription factor protein; PROST-Ets; cytostatic; gene therapy;  
 KW vaccine; cancer; prostate; breast; benign prostatic hyperplasia;  
 KW antisense therapy; ribozyme therapy; therapeutic; cell proliferation; ss.

OS Homo sapiens.

PN WO200142472-A2.

PD 14-JUN-2001.

PF 29-NOV-2000; 2000WO-US42295.

PR 30-NOV-1999; 99US-0168182.

PR 21-NOV-2000; 2000US-0718159.

PA (SCHD ) SCHERING AG.

PI Hartins R, Lin RJ, Luke M, Montecarlo F, Parkes D, Parry G;  
 PI Steinbrecher R, Van Heult PT, Xuan J;

DR WPI; 2001-381692/40.

PS New transcription factor polypeptides, designated PROST-Ets  
 PT polypeptides, useful for diagnostic, research and therapeutic  
 PT applications -

PS Claim 38; Page 56; 74pp; English.

CC The invention relates to human transcription factor protein, designated  
 CC as PROST-Ets and its corresponding cDNA molecule. PROST-Ets proteins and  
 CC nucleic acids are useful for treating a disease-state in human patient,  
 CC such as prostate, breast and ovarian cancer which is associated with  
 CC inappropriate expression of PROST-Ets and where the patient is in need of  
 CC decreased levels or activity of PROST-Ets. PROST-Ets is useful for  
 CC diagnosing and treating diseases of cell proliferation, such as prostate  
 CC cancer and benign prostatic hyperplasia. Prost-ets nucleic acids are used  
 CC as DNA probes, as target for antisense and ribozyme therapy, as template  
 CC for producing antisense polynucleotides, and as diagnostic reagent for  
 CC research, biological, clinical and therapeutic purposes. Prost-ets DNA is  
 CC also used in gene therapy. PROST-Ets protein is useful for generating  
 CC antibodies, and for stimulating immune response in cells containing  
 CC PROST-Ets proteins. The present DNA sequence is antisense oligonucleotide  
 CC which is used for evaluating the role of human transcription factor,  
 CC PROST-Ets in cell proliferation to reduce Prost-ets mRNA expression in  
 CC the selected prostate tumour cell lines.

SQ Sequence 23 BP; 6 A; 8 C; 5 G; 4 U; 0 other;

Query Match 1.2%; Score 23; DB 22; Length 23;  
 Best Local Similarity 82.6%; Pred. No. 5.6e+04;



DE Human NOGO Amberzyme substrate sequence #547.  
 XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inczyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease; substrate sequence;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX WO200159103-A2.  
 PN 16-AUG-2001.  
 XX 09-FEB-2001; 2001WO-US04273.  
 PF 11-FEB-2000; 2000US-181797P.  
 XX 28-FEB-2000; 2000US-185516P.  
 PR 06-MAR-2000; 2000US-187128P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSM/) MCSMIGEN J.  
 PA (CHOW/) CHOWHIRA B M.  
 XX Blatt L, MCSMigen J, Chowhira BM;  
 PI WPI; 2001-607195/69.  
 DR Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 XX constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia,  
 PT and central nervous system injury -  
 XX Claim 89; Page 130; 200pp; English.  
 XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO).  
 CC The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNazyme) an inczyme (an endolytic nucleic acid cleaving a an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN  
 CC motif) pr an amberzyme (cleaving RNA with an NGN triplet), a zinzyme  
 CC (cleaving RNA with a YGX motif). The CD20-targeting nucleic acid is used  
 CC to cleave RNA of CD20 in the presence of a divalent cation that is  
 CC preferably Mg<sup>2+</sup>. Furthermore, it may be contacted with a cell to reduce  
 CC CD20 activity of the cell and treat a patient having a condition  
 CC associated with the level of CD20. The treatment may further comprise the  
 CC use of one or more therapies. In particular, the CD20 targeting  
 CC nucleic acid may be used to treat lymphoma, leukaemia, B-cell  
 CC lymphoma, low-grade or follicular non-Hodgkin's lymphoma (NHL), bulky  
 CC low-grade or follicular NHL, lymphocytic leukaemia, HIV (human  
 CC immunodeficiency virus) associated NHL, mantle-cell lymphoma (MCL),  
 CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune  
 CC thrombocytopenia, and inflammatory arthropathy. The NOGO-targeting  
 CC nucleic acid is used to cleave RNA of the NOGO gene in the presence of a  
 CC divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the nucleic acid  
 CC may be contacted with a cell to reduce NOGO activity of the cell and  
 CC treat a patient having a condition associated with the level of NOGO. The  
 CC treatment may further comprise the use of one or more therapies.  
 CC In particular, the NOGO-targeting nucleic acid may be used to treat  
 CC central nervous system (CNS) injury and cerebrovascular accident (CVA,  
 CC stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob

CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The  
 CC present sequence is a substrate sequence for a nucleic acid of the  
 CC invention based on the human NOGO sequence.  
 XX Sequence 48 BP; 10 A; 13 C; 18 G; 7 U; 0 other;  
 SO  
 Query Match 1.2%; Score 22.6; DB 23; Length 48;  
 Best Local Similarity 62.2%; Pred. No. 7.8e+04;  
 Matches 28; Conservative 3; Mismatches 14; Indels 0; Gaps 0;  
 OY 137 ggcgggggtaggagactccctacagcagcagcctgagaccg 181  
 |||:||||| |||:||||| |||:||||| |||:|||||  
 Db 1 ggcugggcgaggagaacuccucaaagcagcaucgagggggacuc 45  
 RESULT 13  
 AAL28314  
 ID AAL28314 standard; DNA; 50 BP.  
 XX  
 AC AAL28314;  
 XX  
 DT 24-JAN-2002 (first entry)  
 DE  
 XX Human SNP oligonucleotide #1522.  
 KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;  
 KW neuroprotective; antitumor; gene therapy; vaccine; amylose; cancer;  
 KW amyloid protein; angiotensin; apoptosis related protein; cadherin;  
 KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;  
 KW complement related protein; cytochrome; kinesin; cytokine; interferon;  
 KW interleukin; G-protein coupled receptor; thioesterase; inflammation;  
 KW multifactorial disease; autoimmune disease; infection;  
 KW nervous system disease; ss.  
 XX Homo sapiens.  
 OS  
 XX WO200147944-A2.  
 PN 05-JUL-2001.  
 XX 28-DEC-2000; 2000WO-US35498.  
 PF 28-DEC-1999; 99US-0173419.  
 XX 27-DEC-2000; 2000US-0173419.  
 PR (CURA-) CURAGEN CORP.  
 PA Shimkets RA, Leach M;  
 PI WPI; 2001-465210/50.  
 DR Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,  
 XX oncogenes and histones, useful for diagnosing and treating, e.g.  
 PT cancer, autoimmune diseases and infections -  
 XX Claim 1; Page 1817; 4143pp; English.  
 XX The present invention relates to oligonucleotides encoding polymorphic  
 CC variants of proteins related to amylases, amyloid proteins, angiotensin,  
 CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,  
 CC histones, kinases, colony stimulating factors, complement related  
 CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,  
 CC G-protein coupled receptors and thioesterases. The present sequence is  
 CC one such oligonucleotide. The oligonucleotides and the peptides encoded  
 CC by them may be used in the prevention, diagnosis and treatment of  
 CC diseases associated with inappropriate expression of the proteins listed  
 CC above. Disorders that may be prevented, diagnosed and/or treated include  
 CC multifactorial diseases with a genetic component, such as autoimmune  
 CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,  
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer  
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney,

CC leukaemia), diseases of the nervous system and an infection of pathogenic  
CC organisms.  
XX  
SQ Sequence 50 BP; 11 A; 16 C; 16 G; 7 T; 0 other;

Query Match 1.2%; Score 22.4; DB 22; Length 50;  
Best Local Similarity 81.2%; Pred. No. 8.7e+04;  
Matches 26; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 349 tgcagcagacagctcctctgagccagcagc 380  
||||| 1 ||||| ||||| ||||| |||||  
Db 12 tgcagggaaagagctcctctgagcactgagc 43

## RESULT 14

AAL34308/C  
ID AAL34308 standard; DNA; 50 BP.

XX  
AC AAL34308;

XX  
DT 24-JAN-2002 (first entry)

XX  
DE Human SNP oligonucleotide #7516.

XX  
KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;  
KW neuroprotective; antimicrobial; gene therapy; vaccine; amyase; cancer;  
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;  
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;  
KW complement related protein; cytochrome; kinesin; cytokine; interferon;  
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;  
KW multifactorial disease; autoimmune disease; infection;  
KW nervous system disease; ss.

XX  
OS Homo sapiens.

XX  
PN WO200147944-A2.

XX  
PD 05-JUL-2001.

XX  
PF 28-DEC-2000; 2000WO-US35498.

XX  
PR 28-DEC-1999; 99US-0173419.

XX  
PR 27-DEC-2000; 2000US-0173419.

XX  
PA (CURA-) CURAGEN CORP.

XX  
PI Shimkets RA, Leach M;

XX  
DR WPI: 2001-465210/50.

XX  
PT Polymorphic nucleic acids encoding e.g. amyases, cyclins, polymerases,  
PT oncogenes and histones, useful for diagnosing and treating, e.g.  
PT cancer, autoimmune diseases and infections -

XX  
PS Claim 1; Page 3554; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic  
CC variants of proteins related to amyases, amyloid proteins, angiotensin,  
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,  
CC histones, kinases, colony stimulating factors, complement related  
CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,  
CC G-protein coupled receptors and thioesterases. The present sequence is  
CC one such oligonucleotide. The oligonucleotides and the peptides encoded  
CC by them may be used in the prevention, diagnosis and treatment of  
CC diseases associated with inappropriate expression of the proteins listed  
CC above. Disorders that may be prevented, diagnosed and/or treated include  
CC multifactorial diseases with a genetic component, such as autoimmune  
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,  
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer  
CC (e.g. cancers of the bladder, brain, breast, colon and kidney  
CC leukaemia), diseases of the nervous system and an infection of pathogenic  
CC organisms.

XX  
SQ Sequence 50 BP; 3 A; 14 C; 19 G; 14 T; 0 other;

Query Match 1.2%; Score 22.4; DB 22; Length 50;  
Best Local Similarity 66.7%; Pred. No. 8.7e+04;  
Matches 32; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

OY 1609 catgggacaggggtgctctcctcagccagctgctccctggagg 1656  
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 49 CAAGGGCCAGACTACTCCGACAGCCAGCCAGCCAGCCAGCCAGG 2

## RESULT 15

AAD19606  
ID AAD19606 standard; DNA; 45 BP.

XX  
AC AAD19606;

XX  
DT 18-DEC-2001 (first entry)

XX  
DE Mutagenic PCR primer, SER-U to introduce mutation in human MKK3 gene.

XX  
KW 1,3-thiazole compound; antiinflammatory; immunosuppressive; nocotropic;  
KW neuroprotective; immunomodulator; antiarteriosclerotic; dermatologic;  
KW antibacterial; hypertensive; p38 MAP kinase; phosphodiesterase IV;  
KW PDE IV; virucide; tumour necrosis factor alpha; TNF; Addison's disease;  
KW cytokine-mediated disease; adenosine receptor-mediated disease; diabetes;  
KW autoimmune hemolytic anemia; Crohn's disease; psoriasis; rheumatism;  
KW spinal cord injury; multiple sclerosis; Alzheimer's disease; arthritis;  
KW Parkinson's disease; amyotrophic lateral sclerosis; ulcerative colitis;  
KW toxemia; chronic pneumonia; pulmonary silicosis; pulmonary sarcoidosis;  
KW lung tuberculosis; Creutzfeldt-Jakob disease; arterial sclerosis; AIDS;  
KW acquired immune deficiency syndrome; systemic lupus erythematosus;  
KW coccidia; atopic dermatitis; meningitis; encephalopathy; angina pectoris;  
KW myocardial infarction; congestive heart failure; hepatitis; transplant;  
KW dialysis hypotension; diffuse intravascular coagulation syndrome;  
KW human; MKK3 gene; PCR primer; ss.

XX  
OS Homo sapiens.

XX  
PN WO200174811-A2.

XX  
PD 11-OCT-2001.

XX  
PF 29-MAR-2001; 2001WO-JP02629.

XX  
PR 30-MAR-2000; 2000JP-0097876.

XX  
PR 02-FEB-2001; 2001JP-0027571.

XX  
PA (TAKE ) TAKEDA CHEM IND LTD.

XX  
PI Ohkawa S, Naruo K, Miwatashi S, Kimura H;

XX  
DR WPI: 2001-616682/71.

XX  
PT New 1,3-thiazole compounds (I) or their salts (with position 5  
PT substituted by 4-pyridyl) for prevention and treatment of diseases  
PT including cytokine-mediated disease, adenosine receptor mediated  
PT diseases or inflammation -

XX  
PS Example 4; Page 263; 288pp; English.

XX The present invention relates to 1,3-thiazole compounds or their  
CC salts (with position 5 substituted by 4-pyridyl group having a  
CC substituent including no aromatic group, at a position adjacent  
CC to the N of pyridyl group). The compounds of the invention are  
CC excellent inhibitors of p38 MAP kinase, phosphodiesterase IV (PDE  
CC IV) and tumour necrosis factor (TNF) alpha production. They are  
CC antagonists of adenosine receptor. They are used for the prevention  
CC and treatment of cytokine-mediated diseases, adenosine receptor-  
CC mediated diseases, inflammation, Addison's disease, autoimmune  
CC haemolytic anaemia, Crohn's disease, psoriasis, rheumatism, spinal

CC cord injury, multiple sclerosis, Alzheimer's disease, Parkinson's  
CC disease, amyotrophic lateral sclerosis, diabetes, arthritis, toxemias,  
CC ulcerative colitis, chronic pneumonia, pulmonary silicosis, pulmonary  
CC sarcoidosis, lung tuberculosis, cachexia, Creutzfeldt-Jakob disease,  
CC arterial sclerosis, virus infection, atopic dermatitis, systemic lupus  
CC erythematosus, meningitis, AIDS (acquired immune deficiency syndrome),  
CC encephalopathy, angina pectoris, myocardial infarction, congestive  
CC heart failure, hepatitis, transplant, dialysis hypotension or diffuse  
CC intravascular coagulation syndrome. The present DNA sequence is PCR  
CC primer, SRR-U which is used for generating an active type of human  
CC MKK3 gene by introducing a mutation (S189E and T193E). MKK3 gene is  
CC inhibited by the compounds of the present invention.  
XX

SO Sequence 45 BP; 8 A; 9 C; 20 G; 8 T; 0 other;

## Query Match

1.28; Score 22; DB 22; Length 45;

Best Local Similarity 73.7%; Pred. No. 1e+05;

Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 792 tggtagcggaagtgtcaaggacatcgagcgtgc 829  
|||||  
DB 8 tggtagcggaagtgtcaaggacatcgagcgtgc 45

Search completed: August 6, 2002, 22:40:31  
Job time: 6285 sec





```

COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/749,852
FILING DATE: 15-NOV-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: WILSON, MARY J.
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 1579-104
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FRAGMENT TYPE: linear
US-08-749-852-35

```

```

Query Match 1.2%: Score 22: DB 2: Length 50:
Best Local Similarity 73.7%: Pred. No. 1.4e+04:
Matches 28: Conservative 0: Mismatches 10: Indels 0:

Oy 530 gagagacggactgagtcacccagtcacccgcacgc 567
      ||| || ||| ||| ||| ||| ||| |||
Db 9 GAGTCGCGAGAGCGCTTCCAGTCACCCGCGCGCC 46

RESULT 3
US-07-885-689A-7
: Sequence 7, Application US/07885689A
: Patent No. 536876
: GENERAL INFORMATION:
: APPLICANT: Cho, Joong M.
: APPLICANT: Lee, Tae H.
: APPLICANT: Chung, Hyun H.
: APPLICANT: Lee, Yong B.
: APPLICANT: Lee, Tae G.
: APPLICANT: Park, Young W.
: APPLICANT: Han, Kyu B.
: TITLE OF INVENTION: Method for Production of Bovine Growth
: TITLE OF INVENTION: Hormone using a Synthetic Gene.
: NUMBER OF SEQUENCES: 38
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Birch, Stewart, Kolash & Birch
: STREET: P.O. Box 747
: CITY: Falls Church
: STATE: Virginia
: COUNTRY: USA
: ZIP: 22040-0747
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/885,689A
: FILING DATE: 19-MAY-1992
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Svensson, Leonard R.
: REGISTRATION NUMBER: 30,330
: REFERENCE/DOCKET NUMBER: 377-144P

```

```

1 TELECOMMUNICATION INFORMATION:
2 TELEPHONE: 703-241-1300
3 TELEFAX: 703-241-2848
4 INFORMATION FOR SRD ID NO: 7:
5 SEQUENCE CHARACTERISTICS:
6 LENGTH: 45 base pairs
7 TYPE: nucleic acid
8 STRANDEDNESS: single
9 TOPOLOGY: linear
10 MOLECULE TYPE: DNA
11 HYPOTHETICAL: NO
12 FEATURE:
13 NAME/KEY: -
14 LOCATION: 1..45
15 OTHER INFORMATION: /label=oligonucleotide
16 OTHER INFORMATION: /note="U7 oligonucleotide portion of synthetic
17 OTHER INFORMATION: BGH gene, Figure 1."
18 JS-07-885-689A-7

```

```

Query Match      1.1%: Score 21.2; DB 1; Length 45;
Best Local Similarity 76.5%: Pred. No. 2.1e+04;
Matches 26; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1691 cctgcacccagacattccagagcagagcctaca 1724
      ||| ||||| ||||| ||||| |||
Db 1 CTCGGGCCCCGTCGAGTTCCTCAGCAGAGCTCTCA 34

RESULT 4
US-08-628-747-23/c
; Sequence 23, Application US/08628747
; Patent No. 6169070
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Hammonds, R. Glenn
; APPLICANT: Mark, Melanie
; APPLICANT: Mather, Jennie P.
; APPLICANT: Li, Ronghao
; TITLE OF INVENTION: RECEPTOR ACTIVATION BY GAS6
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: One DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94060
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/628,747
; FILING DATE: 17-APR-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/402,253
; FILING DATE: 10-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/438,861
; FILING DATE: 10-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Lee, Wendy M.
; REGISTRATION NUMBER: 00,000
; REFERENCE/DOCKET NUMBER: P929P2PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-225-1994
; TELEFAX: 650-952-9881
; TELERX: 910-371-7168
; INFORMATION FOR SEQ ID NO: 23:

```



```

? SEQUENCE CHARACTERISTICS:
? LENGTH: 50 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? DESCRIPTION: /desc = "oligonucleotide"
US-08-628-747-23

```

Query Match	1.18;	Score 20.8;	DB 4;	Length 50;
Best Local Similarity	70.08;	Pred. No. 2.6e+04;		
Matches 28; Conservative	0;	Mismatches 12;	Indels 0;	Gaps 0;

**D**

Qy Db	<div style="text-align: center;">406</div> cagcagcgycatctggtgcagcgccagccgggtcttgagccgc 445       <div style="text-align: center;">49</div> CAGCGGACGGGGCCGCCCATCCCGGGGCTCGGATC 10
----------	---

RESULT 5  
US-08-766-014-25

Sequence 25, Application US/08/66014  
Patent No. 5744312  
GENERAL INFORMATION:  
APPLICANT: Mamone, Joseph A.  
APPLICANT: Davis, Maria  
APPLICANT: Sha, Dan  
TITLE OF INVENTION: THERMOSTABLE DNA POLYMERASE  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066

```

1 COMPUTER READABLE FORM:
2 MEDIUM TYPE: 3.5" Diskette, 1.44 MB
3
4 MEDIUM TYPE: Storage
5
6 COMPUTER: IBM Compatible
7
8 OPERATING SYSTEM: IBM P.C. DOS 5.0
9
10 SOFTWARE: Fastseq Version 2.0
11
12 CURRENT APPLICATION DATA:
13
14 APPLICATION NUMBER: US/08/766, 014

```

1 FILING DATE: Herewith  
2 CLASSIFICATION: 435  
3 PRIOR APPLICATION DATA: including application  
4 PRIOR APPLICATION DATA: described below:  
5 APPLICATION NUMBER: 60/008,688  
6 FILING DATE: December 15, 1995  
7 ATTORNEY/AGENT INFORMATION:  
8  
9 One

NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 223/104  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1500

TELEPHONE: (413) 955-1000  
TELEFAX: (213) 955-0440  
TELE: 67-3510  
INFORMATION FOR SEQ ID NO: 25;  
SEQUENCE CHARACTERISTICS:

```

; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
ms-08-766-014-25

```

C2-470-00/00 50

Query Match	1.18;	Score 20.4;	DB 1;	Length 50;
Best Local Similarity	65.28;	Pred. No. 3	1e+04;	
Matches 30;	Conservative 0;	Mismatches 16;	Indels 0;	Gaps 0

```

QY      279  cagatgcctgctgagacacgcaagtgcctcagctgtccacacct 324
          ||| | | | | | | | | | | | | | | |
Db      2   CAGTGTATTGTGAGCCAGGGCAATTGGCCACACACCAGCCACCACCT 47

```

RESULT 6  
US-08-426-599B-14/c  
; Sequence 14, Application US/08426599B  
; Patent No. 5932438  
GENERAL INFORMATION:

1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11  
 12  
 13  
 14  
 15  
 16  
 17  
 18  
 19  
 20  
 21  
 22  
 23  
 24  
 25  
 26  
 27  
 28  
 29  
 30  
 31  
 32  
 33  
 34  
 35  
 36  
 37  
 38  
 39  
 40  
 41  
 42  
 43  
 44  
 45  
 46  
 47  
 48  
 49  
 50  
 51  
 52  
 53  
 54  
 55  
 56  
 57  
 58  
 59  
 60  
 61  
 62  
 63  
 64  
 65  
 66  
 67  
 68  
 69  
 70  
 71  
 72  
 73  
 74  
 75  
 76  
 77  
 78  
 79  
 80  
 81  
 82  
 83  
 84  
 85  
 86  
 87  
 88  
 89  
 90  
 91  
 92  
 93  
 94  
 95  
 96  
 97  
 98  
 99  
 100  
 101  
 102  
 103  
 104  
 105  
 106  
 107  
 108  
 109  
 110  
 111  
 112  
 113  
 114  
 115  
 116  
 117  
 118  
 119  
 120  
 121  
 122  
 123  
 124  
 125  
 126  
 127  
 128  
 129  
 130  
 131  
 132  
 133  
 134  
 135  
 136  
 137  
 138  
 139  
 140  
 141  
 142  
 143  
 144  
 145  
 146  
 147  
 148  
 149  
 150  
 151  
 152  
 153  
 154  
 155  
 156  
 157  
 158  
 159  
 160  
 161  
 162  
 163  
 164  
 165  
 166  
 167  
 168  
 169  
 170  
 171  
 172  
 173  
 174  
 175  
 176  
 177  
 178  
 179  
 180  
 181  
 182  
 183  
 184  
 185  
 186  
 187  
 188  
 189  
 190  
 191  
 192  
 193  
 194  
 195  
 196  
 197  
 198  
 199  
 200  
 201  
 202  
 203  
 204  
 205  
 206  
 207  
 208  
 209  
 210  
 211  
 212  
 213  
 214  
 215  
 216  
 217  
 218  
 219  
 220  
 221  
 222  
 223  
 224  
 225  
 226  
 227  
 228  
 229  
 230  
 231  
 232  
 233  
 234  
 235  
 236  
 237  
 238  
 239  
 240  
 241  
 242  
 243  
 244  
 245  
 246  
 247  
 248  
 249  
 250  
 251  
 252  
 253  
 254  
 255  
 256  
 257  
 258  
 259  
 260  
 261  
 262  
 263  
 264  
 265  
 266  
 267  
 268  
 269  
 270  
 271  
 272  
 273  
 274  
 275  
 276  
 277  
 278  
 279  
 280  
 281  
 282  
 283  
 284  
 285  
 286  
 287  
 288  
 289  
 290  
 291  
 292  
 293  
 294  
 295  
 296  
 297  
 298  
 299  
 300  
 301  
 302  
 303  
 304  
 305  
 306  
 307  
 308  
 309  
 310  
 311  
 312  
 313  
 314  
 315  
 316  
 317  
 318  
 319  
 320  
 321  
 322  
 323  
 324  
 325  
 326  
 327  
 328  
 329  
 330  
 331  
 332  
 333  
 334  
 335  
 336  
 337  
 338  
 339  
 340  
 341  
 342  
 343  
 344  
 345  
 346  
 347  
 348  
 349  
 350  
 351  
 352  
 353  
 354  
 355  
 356  
 357  
 358  
 359  
 360  
 361  
 362  
 363  
 364  
 365  
 366  
 367  
 368  
 369  
 370  
 371  
 372  
 373  
 374  
 375  
 376  
 377  
 378  
 379  
 380  
 381  
 382  
 383  
 384  
 385  
 386  
 387  
 388  
 389  
 390  
 391  
 392  
 393  
 394  
 395  
 396  
 397  
 398  
 399  
 400  
 401  
 402  
 403  
 404  
 405  
 406  
 407  
 408  
 409  
 410  
 411  
 412  
 413  
 414  
 415  
 416  
 417  
 418  
 419  
 420  
 421  
 422  
 423  
 424  
 425  
 426  
 427  
 428  
 429  
 430  
 431  
 432  
 433  
 434  
 435  
 436  
 437  
 438  
 439  
 440  
 441  
 442  
 443  
 444  
 445  
 446  
 447  
 448  
 449  
 450  
 451  
 452  
 453  
 454  
 455  
 456  
 457  
 458  
 459  
 460  
 461  
 462  
 463  
 464  
 465  
 466  
 467  
 468  
 469  
 470  
 471  
 472  
 473  
 474  
 475  
 476  
 477  
 478  
 479  
 480  
 481  
 482  
 483  
 484  
 485  
 486  
 487  
 488  
 489  
 490  
 491  
 492  
 493  
 494  
 495  
 496  
 497  
 498  
 499  
 500  
 501  
 502  
 503  
 504  
 505  
 506  
 507  
 508  
 509  
 510  
 511  
 512  
 513  
 514  
 515  
 516  
 517  
 518  
 519  
 520  
 521  
 522  
 523  
 524  
 525

ADDRESSSEE: Rothwell, Figg, Ernst & Kutz, P.C.  
 STREET: 555 Thirteenth Street, N.W., Suite 701  
 STREET: Tower  
 CITY: Washington  
 STATE: DC  
 COUNTRY: U.S. A.  
 ZIP: 20004  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.300  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US 09/436,600

APPLICATION NUMBER: US/00/440,593  
FILING DATE: 21-APR-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Saxe, Stephen A.  
REGISTRATION NUMBER: 38, 609  
REFERENCE/DOCKET NUMBER: 1604-1234  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-624-1589

```

1 TELEFAX: 202-783-6031
2 INFORMATION FOR SEQ ID NO: 14:
3 SEQUENCE CHARACTERISTICS:
4     LENGTH: 37 base pairs
5     TYPE: nucleic acid
6     STRANDEDNESS: single
7     TOPOLOGY: linear
8     MOLBUCE TYPE: other nucleic acid
9     DESCRIPTION: /desc = "Synthetic DN"
10 US-08-426-599B-14

```

Query Match	1.18;	Score 20.2;	DB 2;	Length 37;
Best Local Similarity	75.88;	Pred. No. 3.2e+04;		
Matches 25; Conservative	0;	Mismatches 8;	Indels 0;	Gaps 0;

```

Oy      841 catcacgcgcagatcccatgcatgtgagcccccag 873
      ||| | |||| | |||| | ||| |||| |
Db      35 CATGCGTCGACGCTCCCATGTGAGAGGGAATCCCCGG 3

```

RESULT 7  
US-07-834-539A-50  
Source: 50 and location US/07834539A

1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11  
 12  
 13  
 14  
 15  
 16  
 17  
 18  
 19  
 20  
 21  
 22  
 23  
 24  
 25  
 26  
 27  
 28  
 29  
 30  
 31  
 32  
 33  
 34  
 35  
 36  
 37  
 38  
 39  
 40  
 41  
 42  
 43  
 44  
 45  
 46  
 47  
 48  
 49  
 50  
 51  
 52  
 53  
 54  
 55  
 56  
 57  
 58  
 59  
 60  
 61  
 62  
 63  
 64  
 65  
 66  
 67  
 68  
 69  
 70  
 71  
 72  
 73  
 74  
 75  
 76  
 77  
 78  
 79  
 80  
 81  
 82  
 83  
 84  
 85  
 86  
 87  
 88  
 89  
 90  
 91  
 92  
 93  
 94  
 95  
 96  
 97  
 98  
 99  
 100  
 101  
 102  
 103  
 104  
 105  
 106  
 107  
 108  
 109  
 110  
 111  
 112  
 113  
 114  
 115  
 116  
 117  
 118  
 119  
 120  
 121  
 122  
 123  
 124  
 125  
 126  
 127  
 128  
 129  
 130  
 131  
 132  
 133  
 134  
 135  
 136  
 137  
 138  
 139  
 140  
 141  
 142  
 143  
 144  
 145  
 146  
 147  
 148  
 149  
 150  
 151  
 152  
 153  
 154  
 155  
 156  
 157  
 158  
 159  
 160  
 161  
 162  
 163  
 164  
 165  
 166  
 167  
 168  
 169  
 170  
 171  
 172  
 173  
 174  
 175  
 176  
 177  
 178  
 179  
 180  
 181  
 182  
 183  
 184  
 185  
 186  
 187  
 188  
 189  
 190  
 191  
 192  
 193  
 194  
 195  
 196  
 197  
 198  
 199  
 200  
 201  
 202  
 203  
 204  
 205  
 206  
 207  
 208  
 209  
 210  
 211  
 212  
 213  
 214  
 215  
 216  
 217  
 218  
 219  
 220  
 221  
 222  
 223  
 224  
 225  
 226  
 227  
 228  
 229  
 230  
 231  
 232  
 233  
 234  
 235  
 236  
 237  
 238  
 239  
 240  
 241  
 242  
 243  
 244  
 245  
 246  
 247  
 248  
 249  
 250  
 251  
 252  
 253  
 254  
 255  
 256  
 257  
 258  
 259  
 260  
 261  
 262  
 263  
 264  
 265  
 266  
 267  
 268  
 269  
 270  
 271  
 272  
 273  
 274  
 275  
 276  
 277  
 278  
 279  
 280  
 281  
 282  
 283  
 284  
 285  
 286  
 287  
 288  
 289  
 290  
 291  
 292  
 293  
 294  
 295  
 296  
 297  
 298  
 299  
 300  
 301  
 302  
 303  
 304  
 305  
 306  
 307  
 308  
 309  
 310  
 311  
 312  
 313  
 314  
 315  
 316  
 317  
 318  
 319  
 320  
 321  
 322  
 323  
 324  
 325  
 326  
 327  
 328  
 329  
 330  
 331  
 332  
 333  
 334  
 335  
 336  
 337  
 338  
 339  
 340  
 341  
 342  
 343  
 344  
 345  
 346  
 347  
 348  
 349  
 350  
 351  
 352  
 353  
 354  
 355  
 356  
 357  
 358  
 359  
 360  
 361  
 362  
 363  
 364  
 365  
 366  
 367  
 368  
 369  
 370  
 371  
 372  
 373  
 374  
 375  
 376  
 377  
 378  
 379  
 380  
 381  
 382  
 383  
 384  
 385  
 386  
 387  
 388  
 389  
 390  
 391  
 392  
 393  
 394  
 395  
 396  
 397  
 398  
 399  
 400  
 401  
 402  
 403  
 404  
 405  
 406  
 407  
 408  
 409  
 410  
 411  
 412  
 413  
 414  
 415  
 416  
 417  
 418  
 419  
 420  
 421  
 422  
 423  
 424  
 425  
 426  
 427  
 428  
 429  
 430  
 431  
 432  
 433  
 434  
 435  
 436  
 437  
 438  
 439  
 440  
 441  
 442  
 443  
 444  
 445  
 446  
 447  
 448  
 449  
 450  
 451  
 452  
 453  
 454  
 455  
 456  
 457  
 458  
 459  
 460  
 461  
 462  
 463  
 464  
 465  
 466  
 467  
 468  
 469  
 470  
 471  
 472  
 473  
 474  
 475  
 476  
 477  
 478  
 479  
 480  
 481  
 482  
 483  
 484  
 485  
 486  
 487  
 488  
 489  
 490  
 491  
 492  
 493  
 494  
 495  
 496  
 497  
 498  
 499  
 500  
 501  
 502  
 503  
 504  
 505  
 506  
 507  
 508  
 509  
 510  
 511  
 512  
 513  
 514  
 515  
 516  
 517  
 518  
 519  
 520  
 521  
 522  
 523  
 524  
 525

;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: William M. Smith  
;; STREET: One Market Plaza, Stewart Tower, Suite 2000  
;; CITY: San Francisco  
;; STATE: California  
;; COUNTRY: USA  
;; ZIP: 94105  
;;  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patentln Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/07/834,539A  
;; FILING DATE: 1992-02-05  
;;  
;; CLASSIFICATION:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Smith, William M.  
;; REGISTRATION NUMBER: 30,223  
;; REFERENCE/DOCKET NUMBER: 14643-5  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 415-543-9600  
;; TELEFAX: 415-543-5043  
;; INFORMATION FOR SEQ ID NO: 50:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 42 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;;  
;; MOLECULE TYPE: DNA (genomic)  
;;  
;; US-07-834-539A-50

Query Match 1.1%; Score 20.2; DB 1; Length 42;  
Best Local Similarity 75.8%; Pred. No. 3.3e+04;  
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 625 cagcagctggcagcagccctggggccag 657  
||||| || || |||| |||| || ||||  
Db 1 CAGCAGCTGCACACCCCAATGCCCATGAGCCCGAG 33

RESULT 8  
US-08-053-131-67  
; Sequence 67, Application US/08053131  
; Patent No. 5661016  
; GENERAL INFORMATION:  
; APPLICANT: Lonberg, Nils  
; TITLE OF INVENTION: Transgenic No. 5661016-Human Animals for  
; TITLE OF INVENTION: Producing Heterologous Antibodies  
; NUMBER OF SEQUENCES: 197  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Kourile and Crew  
; STREET: One Market Plaza, Stewart Tower, Suite 200  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94105  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentln Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/053,131  
; FILING DATE: 26-APR-1993  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/990,860  
; FILING DATE: 16-DEC-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/810,279

;; FILING DATE: 17-DEC-1991  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/853,408  
;; FILING DATE: 18-MAR-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Smith, William M.  
;; REGISTRATION NUMBER: 30,223  
;; REFERENCE/DOCKET NUMBER: 14643-9-3  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 415-326-2400  
;; TELEFAX: 415-326-2422  
;; INFORMATION FOR SEQ ID NO: 67:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 42 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;;  
;; MOLECULE TYPE: DNA (primer)  
;;  
;; US-08-053-131-67

Query Match 1.1%; Score 20.2; DB 1; Length 42;  
Best Local Similarity 75.8%; Pred. No. 3.3e+04;  
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 625 cagcagctggcagcagccctggggccag 657  
||||| || || |||| |||| || ||||  
Db 1 CAGCAGCTGCACACCCCAATGCCCATGAGCCCGAG 33

RESULT 9  
US-08-645-641-67  
; Sequence 67, Application US/08645641  
; Patent No. 5719032  
; GENERAL INFORMATION:  
; APPLICANT: Lonberg, Nils  
; TITLE OF INVENTION: Transgenic No. 5719032-Human Animals for  
; TITLE OF INVENTION: Producing Heterologous Antibodies  
; NUMBER OF SEQUENCES: 150  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: William M. Smith  
; STREET: Two Embarcadero Center, 8th Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentln Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/645,641  
; FILING DATE: 20-MAY-1996  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/904,068  
; FILING DATE: 23-JUN-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Smith, William M.  
; REGISTRATION NUMBER: 30,223  
; REFERENCE/DOCKET NUMBER: 14643-000913  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-326-2400  
; TELEFAX: 415-326-2422  
; INFORMATION FOR SEQ ID NO: 67:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 42 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (primer)



COUNTRY: USA  
ZIP: 94105  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/800,353  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/834,539  
FILING DATE: 1992-02-05  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, William M.  
REGISTRATION NUMBER: 30,223  
REFERENCE/DOCKET NUMBER: 14643-5  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-543-9600  
TELEFAX: 415-543-5043  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 42 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-800-353-50

Query Match 1.1%; Score 20.2; DB 2; Length 42;  
Best Local Similarity 75.8%; Pred. No. 3.3e+04;  
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 635 cagcagctgggagcagccagccctggggccag 657  
||||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 1 CAGCAGGTGCACACCCATGCCATGAGCCGAG 33

RESULT 13  
US-08-308-865-67  
Sequence 67 Application US/08308865  
Patent No. 5877397  
GENERAL INFORMATION:  
APPLICANT: Lonberg, Nils  
APPLICANT: Kay, Robert M.  
TITLE OF INVENTION: Transgenic No. 5877397-Human Animals for  
TITLE OF INVENTION: Producing Heterologous Antibodies  
NUMBER OF SEQUENCES: 150  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: William M. Smith  
STREET: One Market Plaza, Stewart Tower, Suite 2000  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94105  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/308,865  
FILING DATE:  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/145,707  
FILING DATE:  
APPLICATION NUMBER: US 07/904,068  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, William M.

REGISTRATION NUMBER: 30,223  
REFERENCE/DOCKET NUMBER: 14643-9-1-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-326-2400  
TELEFAX: 415-326-2422  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 42 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (primer)  
US-08-308-865-67

Query Match 1.1%; Score 20.2; DB 2; Length 42;  
Best Local Similarity 75.8%; Pred. No. 3.3e+04;  
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 625 cagcagctgggagcagccagccctggggccag 657  
||||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 1 CAGCAGGTGCACACCCATGCCATGAGCCGAG 33

RESULT 14  
US-09-042-353-228  
Sequence 228 Application US/09042353  
Patent No. 6255458  
GENERAL INFORMATION:  
APPLICANT: Lonberg, Nils  
APPLICANT: Kay, Robert M.  
TITLE OF INVENTION: Transgenic No. 6255458-Human Animals for  
TITLE OF INVENTION: Producing Heterologous Antibodies  
NUMBER OF SEQUENCES: 421  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/042,353  
FILING DATE: 13-MAR-1998  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/810,279  
FILING DATE: 17-DEC-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/853,408  
FILING DATE: 18-MAR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/904,068  
FILING DATE: 23-JUN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/990,860  
FILING DATE: 16-DEC-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/053,131  
FILING DATE: 26-APR-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/096,762  
FILING DATE: 22-JUL-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/155,301  
FILING DATE: 18-NOV-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/161,739

FILING DATE: 03-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/165,699  
FILING DATE: 10-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/209,741  
FILING DATE: 09-MAR-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/352,322  
FILING DATE: 07-DEC-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/544,404  
FILING DATE: 10-OCT-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/728,463  
FILING DATE: 10-OCT-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US96/16433  
FILING DATE: 10-OCT-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/758,417  
FILING DATE: 02-DEC-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US97/21803  
FILING DATE: 01-DEC-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Apple, Randolph T.  
REGISTRATION NUMBER: 36,429  
REFERENCE/DOCKET NUMBER: 014643-009040US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 228:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 42 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-09-042-353-228

Query Match 1.1%; Score 20.2; DB 4; Length 42;  
Best Local Similarity 75.8%; Pred. No. 3.3e+04;  
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 625 cagcagctggcagcccaagccctggggccag 657  
||||| || || |||| |||| || || ||||  
Db 1 CAGCAGGTGCACACCCCATGCCCATGAGCCGAG 33

RESULT 15  
US-08-758-417A-76  
Sequence 76, Application US/08758417A  
Patent No. 6300129  
GENERAL INFORMATION:  
APPLICANT: Lonberg, Nils  
Ray, Robert M.  
TITLE OF INVENTION: Transgenic No. 6300129-Human Animals for  
Producing Heterologous Antibodies  
NUMBER OF SEQUENCES: 417  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC Compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/758,417A  
FILING DATE: 02-DEC-1996  
CLASSIFICATION: <unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/728,463  
FILING DATE: 10-OCT-1996  
APPLICATION NUMBER: US 08/544,404  
FILING DATE: 10-OCT-1995  
APPLICATION NUMBER: US 08/352,322  
FILING DATE: 07-DEC-1994  
APPLICATION NUMBER: US 08/209,741  
FILING DATE: 09-MAR-1994  
APPLICATION NUMBER: US 08/165,699  
FILING DATE: 10-DEC-1993  
APPLICATION NUMBER: US 08/161,739  
FILING DATE: 03-DEC-1993  
APPLICATION NUMBER: US 08/155,301  
FILING DATE: 18-NOV-1993  
APPLICATION NUMBER: US 08/096,762  
FILING DATE: 22-JUL-1993  
APPLICATION NUMBER: US 08/053,131  
FILING DATE: 26-APR-1993  
APPLICATION NUMBER: US 07/990,860  
FILING DATE: 16-DEC-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Serafini, Andrew T.  
REGISTRATION NUMBER: 41,303  
REFERENCE/DOCKET NUMBER: 014643-009030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 76:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 42 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
SEQUENCE DESCRIPTION: SEQ ID NO: 76:  
US-08-758-417A-76

Query Match 1.1%; Score 20.2; DB 4; Length 42;  
Best Local Similarity 75.8%; Pred. No. 3.3e+04;  
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 625 cagcagctggcagcccaagccctggggccag 657  
||||| || || |||| |||| || || ||||  
Db 1 CAGCAGGTGCACACCCCATGCCCATGAGCCGAG 33

Search completed: August 6, 2002, 22:35:06  
Job time: 6330 sec



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 19:52:36 ; Search time 2035.51 Seconds

(without alignments)  
12558.638 Million cell updates/sec

Title: US-09-841-963A-1

Sequence: 1 gctcgaacttcctccagcagc.....ataagatactagagactg 1894

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 89406

Minimum DB seq length: 10

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:\*  
1: em\_estba:\*  
2: em\_esthm:\*  
3: em\_estlin:\*  
4: em\_estmu:\*  
5: em\_estov:\*  
6: em\_estpl:\*  
7: em\_estro:\*  
8: em\_hic:\*  
9: gb\_estcl:\*  
10: gb\_estl2:\*  
11: gb\_hic:\*  
12: gb\_gss:\*  
13: em\_gss\_hum:\*  
14: em\_gss\_inv:\*  
15: em\_gss\_dln:\*  
16: em\_gss\_vrl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	30	1.6	47	10	R07222
2	26.2	1.4	40	9	AA789732 yf1ab07.r1
3	24.8	1.3	50	9	AA789732 vt78d02.r
4	24.8	1.3	50	9	AU104281 AU104281
5	23.2	1.2	50	9	AU104284 AU104284
6	22.6	1.2	49	9	AU104283 AU104283
7	21.6	1.1	46	9	AA108149 ml58b07.r
8	21.6	1.1	46	9	A1690532 tq12e07.x
9	21.4	1.1	47	12	A2403867 AU104286
10	21.4	1.1	50	9	AU104319 AU104319
11	21	1.1	50	9	AU107649 AU107649
12	21	1.1	50	9	AU107650 AU107650
13	21	1.1	50	9	AU107651 AU107651
14	20.8	1.1	50	9	AU104063 AU104063
15	20.6	1.1	50	9	AU104502 AU104502
16	20.4	1.1	48	10	B1462075 B1462075
17	20.4	1.1	50	9	AU104329 AU104329

C 18	20.4	1.1	50	9	AU105943
C 19	20.2	1.1	50	9	AL586305
C 20	20.2	1.1	50	9	AU102557
C 21	20.2	1.1	50	9	AU104466
C 22	20.2	1.1	50	9	AU104498
C 23	20	1.1	44	12	A2783407
C 24	19.8	1.0	46	9	AA632261
C 25	19.8	1.0	49	9	AA986590
C 26	19.8	1.0	50	9	AU104501
C 27	19.8	1.0	50	9	AU104612
C 28	19.6	1.0	36	12	A2807008
C 29	19.6	1.0	43	10	BE373472
C 30	19.6	1.0	46	10	B1488502
C 31	19.6	1.0	49	9	A1355157
C 32	19.6	1.0	49	10	BF571906
C 33	19.4	1.0	50	10	BF571906
C 34	19.4	1.0	43	9	A1570014
C 35	19.4	1.0	47	9	AA290779
C 36	19.4	1.0	48	12	BH634120
C 37	19.4	1.0	50	9	AU102813
C 38	19.4	1.0	50	9	AU104330
C 39	19.4	1.0	50	9	AU105871
C 40	19.2	1.0	50	10	B1256277
C 41	19.2	1.0	42	10	B1823879
C 42	19.2	1.0	49	9	AA677795
C 43	19.2	1.0	49	9	AA781646
C 44	19.2	1.0	50	9	AU104064
C 45	19.2	1.0	50	9	AU104491
C 45	19.2	1.0	50	9	AU104493

#### ALIGNMENTS

RESULT 1  
LOCUS R07222  
DEFINITION yf1ab07.r1 Soares fetal liver spleen livers Homo sapiens cDNA clone  
IMAGE:126805 5' similar to gb:S45203 Flt-1 ONCOGENE (HUMAN);, mRNA  
sequence.

ACCESSION R07222.1 GI:759145

VERSION R07222

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Mammalia; Euteleostomi;

AUTHORS Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston, R., Williamson, A., Wohlmann, P. and Wilson, R.

Unpublished (1995)

CONTACT: Wilson RK

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: estewatson.wustl.edu

Insert size: 1185

High quality sequence starts: 1

Source: IMAGE Consortium, LNL This clone is available royalty-free

through LNL; contact the IMAGE Consortium (info@image.lnl.gov)

for further information. Trace considered overall poor quality

Insert length: 1185 Std Error: 0.00

Seq primer: M13RP1

High quality sequence stop: 1.  
Location/Qualifiers

1.47  
/organism="Homo sapiens"  
/db\_xref="GB:47896"  
/db\_xref="taxon:9606"  
/clone="IMAGE:126805"

```

/clone.lib="Soares fetal liver spleen INTLS"
/sex="male"
/dev_stage="20 week-post conception fetus"
/lab.host="DH10B (ampicillin resistant)"
/notes="Organ: Liver and Spleen; Vector: pT73D (Pharmacia)
with a modified polylinker; Site_1: Pac I; Site_2: Eco RI;
1st strand cDNA was primed with a Pac I - oligo(dT) primer
[5' AACGCGAAGAAATTAATTAAAGACCTTTTTTTTTTTTTTTTT 3']
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Pac I and cloned into the Pac I
and Eco RI sites of the modified pT73 vector. Library
went through one round of normalization. Library
constructed by Bento Soares and M.Fatima Bonaldo."

```

Query Match	1.68;	Score 30;	DB 10;	Length 47;
Best Local Similarity	78.3%;	Pred. No. 4.1e+04;		
Matches	36;	Conservative	0;	Mismatches 10;
			Indels	0;
			Gaps	0;

```
Oy      1314    tgaactgcgacaaagcttgtagccgcttcatacggccaagtcttacaaggaa   1359  
          ||||| | | | | | | | | | | | | | | | |  
Db       1     TGAATTACGACAAGCTTGAGCCGCCTCGCTCCGATACTATTTATGAGAA   46
```

RESULT 2	LOCUS	DEFINITION
AA789732	40 bp	mRNA
AA789732		linear
		EST 06-FEB-1996
		vt18d02.r1 Barstead mouse irradiated colon MBLR81 Mus musculus CDNA clone IMAGE:1177251 5' similar to SW:ETS4_DROME P29775 DNA-BINDING PROTEIN D-ETS-4 ;, mRNA sequence.

ACCESSION	AA789732	
VERSION	AA789732.1	GI:2849852
KEYWORDS	EST.	
SOURCE	house mouse.	
ORGANISM	Mus musculus	

REFERENCE  
AUTHORS  
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:  
Mammalia: Eutheria: Rodentia: Sciuromorphi: Muridae: Mus:  
1 (pages 1 to 40)  
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,  
Gallus, S., Kuehba, T., Lacy, M., Le, M., Martin, J., Morris, M.,  
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,  
Theisberg, B., Wylie, T., Lemon, G., Soares, B., Wilson, R. and  
Waterston, R.  
The WASHU-HMMI Mouse EST Project  
Unpublished (1996)  
Contact: Marra M/Mouse EST Project

TITLE	JOURNAL	COMMENT
The Mashu-HHMI Mouse EST Project Unpublished (1996)	Contact: Maria M/Mouse EST Project Mashu-HHMI Mouse EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810	Email: mouseest@watslon.wustl.edu This clone is available royalty-free through LNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:635099 Trace considered overall poor quality Possible reversed clone; similarity on wrong strand Seq primer: -28m13 rev2 ET from Amersham High quality sequence stop 1.

**FEATURES**  
**source**

```

/organism="Mus musculus"
/strain="FVB/N"
/db_xref="taxon:10090"
/clone_image:1177251
/clone_id="Bartstead mouse irradiated mouse MPlnB7"
/dev_stage="8 weeks"
/lab_host="DH108"
/note="Vector: pMT3D-Pac (Pharmacia) with a modified
polylinker. Site1: EcoRI. Site2: NotI. Tissue obtained
from 8 week old mouse. Colon was harvested 72 hours after

```

```

BASE COUNT
ORIGIN
10 a 10 c 11 g 9 t
irradiation with 1400 Gys. 1st strand cDNA was primed
with a Not I - oligo(dT) primer
15'GTGTACGAATCTGAAATGGGAGCGGCGCCCTTTTTTTTTTTTTTTTTT
3': double-stranded cDNA was ligated to Eco RI
adaptors [AATTCGAGCCGm], digested with Not I and cloned
into the Not I and Eco RI sites of the modified p1773
vector. Library constructed by Bob Barstead.

```

Query Match	1.48;	Score 26.2;	DB 9;	Length 40;
Best Local Similarity	79.5%;	Pred. No. 2e+05;		
Matches 31; Conservative	0;	Mismatches 8;	Indels 0;	Gaps 0;

```
OY 1163 caccctgtggcagtttcctcaaggagttgtctactcaagccc 120
      |||||||
DB 2 CAACGTGGCAGTTCCTGAAGAAGACTGCTGTGTCAGGCC 40
```

RESULT	3
AU104281/c	
LOCUS	50 bp mRNA linear EST 30-AUG-2007
DEFINITION	AU104281 Sgano Homo sapiens CDNA library Homo sapiens clone
ACCESSION	HEP04739, mRNA sequence.
VERSION	AU104281 AU104281 GI:13553802

KEYWORDS  
EST.  
SOURCE  
ORGANISM  
Homo sapiens  
human.  
Homo sapiens

REFERENCE  
AUTHORS  
TITLE  
JOURNAL

1 (pages 1 to 50)  
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hatake  
H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki  
Y., Nakamura,Y., Suyama,A. and Sugano,S.  
Diverse transcriptional initiation revealed by fine, large-scale  
mapping of mRNA start sites  
EMBO Rep. 2 (3), 388-393 (2001)

**COMMENT**

Contact: Yutaka Suzuki  
Department of Virology  
Institute of Medical Science, University of Tokyo  
4-6-1, Shirokanedai, Minatoku, Tokyo 108-6639, Japan  
Email: yusuzuki@ims.u-tokyo.ac.jp  
Suzuki, Y., Yoshimoto-Nakagawa, K., Maruyama, K., Suyama, A. and Suganuma, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. gene 200 (1-2), 149-156 (1997).

**FEATURES**  
**SOURCE**

```

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="HEP04739"
/clone_1p="Sugeno Homo sapiens cDNA library"
BASE COUNT      7 a      13 c      26 g      4 t
ORIGIN

```

Query Match	1.3%	Score 24.8	DB 9	Length 50
Best Local Similarity	80.6%	Pred. No. 3.8e+05		
Matches 29; Conservative	0	Mismatches 7	Indels 0	Gaps 0

OY 457 ccacctcctctgtcccccgaaacagtggtgcggac 49  
||| ||| ||| ||| ||| ||| ||| ||| |||  
Db 45 cccctctctgcccgcgcgaaccgctgwcgccgc 10

RESULT 4  
AUI04284/c  
14000000  
EOM 30-MAR-2000

LOCUS	AU104284	50 bp	mRNA	linear	EST 30-AUG-2000
DEFINITION	AU104284	Sugano Homo sapiens cDNA library Homo sapiens cDNA clone			
ACCESSION	HEP07220	mRNA sequence.			
	AU104284				



VERSION AU104284.1 GI:13553805  
KEYWORDS EST  
SOURCE human  
ORGANISM Homo sapiens  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata  
,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki  
,Y., Nakamura,Y., Suyama,A. and Sugano,S.  
Diverse transcriptional initiation revealed by fine, large-scale  
mapping of mRNA start sites  
EMBO Rep. 2 (5), 388-393 (2001)  
JOURNAL MEDLINE  
COMMENT Contact: Yutaka Suzuki  
Department of Virology  
Institute of Medical Science, University of Tokyo  
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan  
Email: yusuzuki@ims.u-tokyo.ac.jp  
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano  
,S. Construction and characterization of a full length-enriched and  
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).  
Location/Qualifiers  
1..50  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="Sugano Homo sapiens cDNA library"  
BASE COUNT 7 a 11 c 28 g 4 t  
ORIGIN

Query Match 1.3%; Score 24.8; DB 9; Length 50;  
Best Local Similarity 80.6%; Pred. No. 3.8e+05;  
Matches 29; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Oy 457 ccacctctgtgtgtccccacacagtggtgcggac 492  
Db 44 CCCCCCTCTGTGGCCGCCGCCGCTGTGCGCTC 9  
|||||

RESULT 5  
AU104283/c 50 bp mRNA linear EST 30-AUG-2001  
LOCUS AU104283 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone  
DEFINITION HE06519, mRNA sequence.  
ACCESSION AU104283  
VERSION AU104283.1 GI:13553804  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata  
,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki  
,Y., Nakamura,Y., Suyama,A. and Sugano,S.  
Diverse transcriptional initiation revealed by fine, large-scale  
mapping of mRNA start sites  
EMBO Rep. 2 (5), 388-393 (2001)  
JOURNAL MEDLINE  
COMMENT Contact: Yutaka Suzuki  
Department of Virology  
Institute of Medical Science, University of Tokyo  
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan  
Email: yusuzuki@ims.u-tokyo.ac.jp  
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano  
,S. Construction and characterization of a full length-enriched and  
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).  
Location/Qualifiers  
1..50  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
BASE COUNT 1 a 11 c 28 g 4 t  
ORIGIN

/clone="HE06519"  
/clone\_lib="Sugano Homo sapiens cDNA library"  
BASE COUNT 7 a 12 c 26 g 5 t  
ORIGIN

Query Match 1.2%; Score 23.2; DB 9; Length 50;  
Best Local Similarity 77.8%; Pred. No. 7.5e+05;  
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Oy 457 ccacctctgtgtgtccccacacagtggtgcggac 492  
Db 45 CCCCCCTCTGTGGCCGCCGCCGCTGTGCGCTC 10  
|||||

RESULT 6  
AA108149/c 49 bp mRNA linear EST 03-FEB-1997  
LOCUS AA108149/9  
DEFINITION m158h07.r1 StrataGene mouse testis (#937308) Mus musculus cDNA  
clone IMAGE:516253 5' similar to gb:U29152 Mus musculus aldose  
reductase mRNA, complete cds (MUSE);, mRNA sequence.  
ACCESSION AA108149  
VERSION AA108149.1 GI:1659201  
KEYWORDS EST.  
SOURCE house mouse.  
ORGANISM Mus musculus  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
AUTHORS Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,  
Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,  
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,  
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and  
Waterston,R.  
The WashU-HMNI Mouse EST Project  
Unpublished (1996)  
JOURNAL COMMENT Contact: Marra M/Mouse EST Project  
WashU-HMNI Mouse EST Project  
Washington University School of Medicine  
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: mouseest@wustl.edu  
This clone is available royalty-free through LNL; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
MGI:310101  
Seq primer: -28m13 rev1 ET from Amersham.  
Location/Qualifiers  
1..49  
/organism="Mus musculus"  
/strain="Inbred CD-1"  
/db\_xref="taxon:10090"  
/clone="IMAGE:516253"  
/clone\_lib="Stratagene mouse testis (#937308)"  
/sex="males"  
/issue\_type="testis"  
/dev\_stage="10-12 week old"  
/lab\_host="SOLR (kanamycin resistant)"  
/note="Organ: testis; Vector: pBluescript SK-; Site: 1;  
ECORI; Site 2: XhoI; Cloned unidirectionally. Primer:  
Oligo dT. Average insert size: 1.0 kb; Uni-ZAP XR Vector;  
-5' adaptor sequence: 5' GAATTCGGCAGAG 3' -3' adaptor  
sequence: 5' CTCAGCTTTTGTGTGTGTGT 3'."  
BASE COUNT 9 a 17 c 12 g 11 t  
ORIGIN

Query Match 1.2%; Score 22.6; DB 9; Length 49;  
Best Local Similarity 68.9%; Pred. No. 9.6e+05;  
Matches 31; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Oy 1426 gctgtgccagggcctgaaccgcctcagggcctctctctg 1470  
|||



/clone.lib="Mouse 10kb plasmid UUCGM library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /note="Vector: FMD42uv; Purified genomic DNA from K. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g1147321149b|AF129072.1), a copy-number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT  
 ORIGIN  
 8 a 13 c 15 g 11 t

Query Match 1.1%; Score 21.4; DB 12; Length 47;  
 Best Local Similarity 71.8%; Pred. No. 1.6e+06;  
 Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 1020 tgcagcccccctgacatctggaagtcagcgccctgga 1058  
 Db 9 tccatgccaccctgctcttggagagagcattgca 47

RESULT 10  
 LOCUS AUI04319 50 bp mRNA linear EST 30-AUG-2001  
 DEFINITION AUI04319 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone  
 ACCESSION AUI04319  
 VERSION AUI04319.1 GI:13553840  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE 1 (bases 1 to 50)  
 AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata ,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki ,Y., Nakamura,Y., Suyama,A. and Sugano,S.  
 TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites  
 JOURNAL EMBO Rep. 2 (5), 388-393 (2001)  
 MEDLINE 21270072  
 COMMENT Contact: Yutaka Suzuki  
 Department of Virology  
 Institute of Medical Science, University of Tokyo  
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan  
 Email: yusuzuki@ims.u-tokyo.ac.jp  
 Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano ,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).  
 FEATURES  
 SOURCE  
 1. 50  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="HEP05158"  
 /clone.lib="Sugano Homo sapiens cDNA library"

BASE COUNT 11 a 11 c 18 g 10 t  
 ORIGIN

Query Match 1.1%; Score 21.4; DB 9; Length 50;  
 Best Local Similarity 66.0%; Pred. No. 1.6e+06;  
 Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 778 ggttcagtcacatgctgctgagcgaagtcacagacacagagacg 824  
 Db 4 ggttcagtcacatgctgagcagcgagcgaagtcacagacacagacg 50

RESULT 11  
 AUI07649  
 LOCUS AUI07649 50 bp mRNA linear EST 30-AUG-2001  
 DEFINITION AUI07649 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone  
 ACCESSION AUI07649  
 VERSION AUI07649.1 GI:13557170  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 50)  
 AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata ,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki ,Y., Nakamura,Y., Suyama,A. and Sugano,S.  
 TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites  
 JOURNAL EMBO Rep. 2 (5), 388-393 (2001)  
 MEDLINE 21270072  
 COMMENT Contact: Yutaka Suzuki  
 Department of Virology  
 Institute of Medical Science, University of Tokyo  
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan  
 Email: yusuzuki@ims.u-tokyo.ac.jp  
 Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano ,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).  
 FEATURES  
 SOURCE  
 1. 50  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="HS102001"  
 /clone.lib="Sugano Homo sapiens cDNA library"

BASE COUNT 17 a 11 c 15 g 7 t  
 ORIGIN

Query Match 1.1%; Score 21; DB 9; Length 50;  
 Best Local Similarity 82.8%; Pred. No. 1.9e+06;  
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 862 ctggagcccccagcatgctgcagaagtgc 890  
 Db 21 cccgagcccccagcatgctgcagaagtgc 49

RESULT 12  
 AUI07650  
 LOCUS AUI07650 50 bp mRNA linear EST 30-AUG-2001  
 DEFINITION AUI07650 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone  
 ACCESSION AUI07650  
 VERSION AUI07650.1 GI:13557171  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE 1 (bases 1 to 50)  
 AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata ,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki ,Y., Nakamura,Y., Suyama,A. and Sugano,S.  
 TITLE Diverse transcriptional initiation revealed by fine, large-scale







GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 21:01:12 ; Search time 3320.87 Seconds  
(without alignments)  
12339.085 Million cell updates/sec

Title: US-09-841-963A-1

Perfect score: 1894  
Sequence: 1 gtctgctctctccacgcac.....ataagatactagagaactg 1894

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 21979536 seqs, 10817449327 residues

Total number of hits satisfying chosen parameters: 10010710

Minimum DB seq length: 10  
Maximum DB seq length: 50

Post-Processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Pending\_Patents\_NA\_Main.\*  
1: /cgn2\_6/ptodata/2/pna/PCNUS\_COMB.seq.\*  
2: /cgn2\_6/ptodata/2/pna/US06\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/pna/US07\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/pna/US080\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/pna/US081\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/pna/US082\_COMB.seq.\*  
7: /cgn2\_6/ptodata/2/pna/US083\_COMB.seq.\*  
8: /cgn2\_6/ptodata/2/pna/US084\_COMB.seq.\*  
9: /cgn2\_6/ptodata/2/pna/US085\_COMB.seq.\*  
10: /cgn2\_6/ptodata/2/pna/US086\_COMB.seq.\*  
11: /cgn2\_6/ptodata/2/pna/US087\_COMB.seq.\*  
12: /cgn2\_6/ptodata/2/pna/US088\_COMB.seq.\*  
13: /cgn2\_6/ptodata/2/pna/US089\_COMB.seq.\*  
14: /cgn2\_6/ptodata/2/pna/US090\_COMB.seq.\*  
15: /cgn2\_6/ptodata/2/pna/US091\_COMB.seq.\*  
16: /cgn2\_6/ptodata/2/pna/US092\_COMB.seq.\*  
17: /cgn2\_6/ptodata/2/pna/US093\_COMB.seq.\*  
18: /cgn2\_6/ptodata/2/pna/US094\_COMB.seq.\*  
19: /cgn2\_6/ptodata/2/pna/US095A\_COMB.seq.\*  
20: /cgn2\_6/ptodata/2/pna/US095B\_COMB.seq.\*  
21: /cgn2\_6/ptodata/2/pna/US095C\_COMB.seq.\*  
22: /cgn2\_6/ptodata/2/pna/US095D\_COMB.seq.\*  
23: /cgn2\_6/ptodata/2/pna/US096A\_COMB.seq.\*  
24: /cgn2\_6/ptodata/2/pna/US096B\_COMB.seq.\*  
25: /cgn2\_6/ptodata/2/pna/US096C\_COMB.seq.\*  
26: /cgn2\_6/ptodata/2/pna/US096D\_COMB.seq.\*  
27: /cgn2\_6/ptodata/2/pna/US096E\_COMB.seq.\*  
28: /cgn2\_6/ptodata/2/pna/US097A\_COMB.seq.\*  
29: /cgn2\_6/ptodata/2/pna/US097B\_COMB.seq.\*  
30: /cgn2\_6/ptodata/2/pna/US097C\_COMB.seq.\*  
31: /cgn2\_6/ptodata/2/pna/US098A\_COMB.seq.\*  
32: /cgn2\_6/ptodata/2/pna/US098B\_COMB.seq.\*  
33: /cgn2\_6/ptodata/2/pna/US098C\_COMB.seq.\*  
34: /cgn2\_6/ptodata/2/pna/US099A\_COMB.seq.\*  
35: /cgn2\_6/ptodata/2/pna/US099B\_COMB.seq.\*  
36: /cgn2\_6/ptodata/2/pna/US099C\_COMB.seq.\*  
37: /cgn2\_6/ptodata/2/pna/US100\_COMB.seq.\*  
38: /cgn2\_6/ptodata/2/pna/US101\_COMB.seq.\*  
39: /cgn2\_6/ptodata/2/pna/US6000\_COMB.seq.\*  
40: /cgn2\_6/ptodata/2/pna/US6001\_COMB.seq.\*  
41: /cgn2\_6/ptodata/2/pna/US6002\_COMB.seq.\*  
42: /cgn2\_6/ptodata/2/pna/US6003\_COMB.seq.\*  
43: /cgn2\_6/ptodata/2/pna/US6004\_COMB.seq.\*

Result				Query				SUMMARIES			
No.	Score	Match	Length	DB	ID						
1	34	1.8	34	22	US-09-570-593-11	Sequence 11, Appl	44: /cgn2_6/ptodata/2/pna/US6005_COMB.seq.*				
2	31	1.6	31	22	US-09-570-593-10	Sequence 10, Appl	45: /cgn2_6/ptodata/2/pna/US6006_COMB.seq.*				
3	24.4	1.3	50	29	US-09-755-374A-3340	Sequence 3340, Ap	46: /cgn2_6/ptodata/2/pna/US6007_COMB.seq.*				
4	24.2	1.3	50	29	US-09-755-374A-26208	Sequence 26208, A	47: /cgn2_6/ptodata/2/pna/US6008_COMB.seq.*				
5	23.8	1.3	50	29	US-09-755-374A-26208	Sequence 26208, A	48: /cgn2_6/ptodata/2/pna/US6009_COMB.seq.*				
6	23.6	1.2	48	37	US-10-017-974-35747	Sequence 35747, A	49: /cgn2_6/ptodata/2/pna/US6010_COMB.seq.*				
7	23.2	1.2	47	18	US-09-422-978-1175	Sequence 175, App	50: /cgn2_6/ptodata/2/pna/US6011_COMB.seq.*				
8	23	1.2	23	28	US-09-718-159-5	Sequence 5, Appl1	51: /cgn2_6/ptodata/2/pna/US6012_COMB.seq.*				
9	23	1.2	23	28	US-09-718-159-9	Sequence 9, Appl1	52: /cgn2_6/ptodata/2/pna/US6013_COMB.seq.*				
10	23	1.2	23	28	US-09-718-159-10	Sequence 10, Appl	53: /cgn2_6/ptodata/2/pna/US6014_COMB.seq.*				
11	23	1.2	23	28	US-09-718-159-11	Sequence 11, Appl	54: /cgn2_6/ptodata/2/pna/US6015_COMB.seq.*				
12	23	1.2	23	29	US-09-755-374A-9716	Sequence 9716, Ap	55: /cgn2_6/ptodata/2/pna/US6016_COMB.seq.*				
13	23	1.2	50	29	US-09-755-374A-21580	Sequence 21580, A	56: /cgn2_6/ptodata/2/pna/US6017_COMB.seq.*				
14	22.8	1.2	50	29	US-09-755-374A-28060	Sequence 28060, A	57: /cgn2_6/ptodata/2/pna/US6018_COMB.seq.*				
15	22.6	1.2	38	8	US-08-472-801-161	Sequence 161, App	58: /cgn2_6/ptodata/2/pna/US6019_COMB.seq.*				
16	22.6	1.2	38	10	US-08-668-235-161	Sequence 161, App	59: /cgn2_6/ptodata/2/pna/US6020_COMB.seq.*				
17	22.6	1.2	48	30	US-09-780-533A-6295	Sequence 6295, Ap	60: /cgn2_6/ptodata/2/pna/US6021_COMB.seq.*				
18	22.4	1.2	48	33	US-09-864-785-3315	Sequence 3315, Ap	61: /cgn2_6/ptodata/2/pna/US6022_COMB.seq.*				
19	22.2	1.2	41	35	US-09-953-198-123	Sequence 123, App	62: /cgn2_6/ptodata/2/pna/US6023_COMB.seq.*				
20	22.2	1.2	44	8	US-08-472-801-999	Sequence 999, App	63: /cgn2_6/ptodata/2/pna/US6024_COMB.seq.*				
21	22.2	1.2	44	10	US-08-668-235-1000	Sequence 1000, Ap	64: /cgn2_6/ptodata/2/pna/US6025_COMB.seq.*				
22	22.2	1.2	48	37	US-10-017-974-22699	Sequence 22699, A	65: /cgn2_6/ptodata/2/pna/US6026_COMB.seq.*				
23	22	1.2	22	14	US-09-064-645-23	Sequence 23, Appl	66: /cgn2_6/ptodata/2/pna/US6027_COMB.seq.*				
24	22	1.2	22	14	US-09-567-970-23	Sequence 23, Appl	67: /cgn2_6/ptodata/2/pna/US6028_COMB.seq.*				
25	22	1.2	45	35	US-09-959-356A-7	Sequence 7, Appl1	68: /cgn2_6/ptodata/2/pna/US6029_COMB.seq.*				
26	22	1.2	45	35	US-09-959-356A-8	Sequence 8, Appl1	69: /cgn2_6/ptodata/2/pna/US6030_COMB.seq.*				
27	22	1.2	48	33	US-09-864-785-3326	Sequence 3326, Ap	70: /cgn2_6/ptodata/2/pna/US6031_COMB.seq.*				
28	22	1.2	48	37	US-10-017-974-34757	Sequence 34757, A	71: /cgn2_6/ptodata/2/pna/US6032_COMB.seq.*				
29	22	1.2	50	29	US-09-755-374A-17016	Sequence 17016, A	72: /cgn2_6/ptodata/2/pna/US6033_COMB.seq.*				
30	21.8	1.2	49	64	US-60-253-652-9804	Sequence 9804, Ap	73: /cgn2_6/ptodata/2/pna/US6034_COMB.seq.*				
31	21.8	1.2	50	29	US-09-755-374A-24550	Sequence 24550, A	74: /cgn2_6/ptodata/2/pna/US6035_COMB.seq.*				
							75: /cgn2_6/ptodata/2/pna/US6036_COMB.seq.*				

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

```
32 21.6 1.1 31 31 US-09-801-274-1269 Sequence 1269, Ap
c 33 21.6 1.1 47 60 US-60-216-745-4273 Sequence 4273, Ap
34 21.6 1.1 48 35 US-09-930-423-3875 Sequence 3875, Ap
c 35 21.6 1.1 50 29 US-09-755-374A-23624 Sequence 23624, A
c 36 21.6 1.1 50 29 US-09-755-374A-23626 Sequence 23626, A
37 21.4 1.1 48 32 US-09-848-754A-7792 Sequence 7792, Ap
38 21.4 1.1 48 33 US-09-864-785-3298 Sequence 3298, Ap
c 39 21.2 1.1 36 16 US-09-214-913-31 Sequence 31, Appl
c 40 21.2 1.1 36 23 US-09-612-314-64 Sequence 64, Appl
41 21.2 1.1 36 30 US-09-762-378-11 Sequence 11, Appl
42 21 1.1 21 28 US-09-718-159-3 Sequence 3, Appl
c 43 21 1.1 37 22 US-09-593-580-45 Sequence 45, Appl
c 44 21 1.1 37 22 US-09-593-580B-45 Sequence 45, Appl
45 21 1.1 39 30 US-09-771-372-8 Sequence 8, Appl
```

## ALIGNMENTS

```
RESULT 1
US-09-570-593-11/c
; Sequence 11, Application US/09570593
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Xin, Hong
; APPLICANT: Hartowe, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 34
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: GSEF-specific primer
US-09-570-593-11
```

```
Query Match 1.88; Score 34; DB 22; Length 34;
Best Local Similarity 100.0%; Pred. No. 1.4e+04;
Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy 1850 ccagagatgccccgggaatgataataaagata 1883
Db 34 CCAGAGATGCCCCGGGAAATGATTAATAAGATA 1
```

```
RESULT 2
US-09-570-593-10
; Sequence 10, Application US/09570593
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Xin, Hong
; APPLICANT: Hartowe, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 31
; TYPE: DNA
; ORGANISM: Artificial Sequence
```

```
; FEATURE:
; OTHER INFORMATION: GSEF-specific primer
US-09-570-593-10
```

```
Query Match 1.68; Score 31; DB 22; Length 31;
Best Local Similarity 100.0%; Pred. No. 5e+04;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy 1552 caggagagggcaaccaactgccccaggggga 1582
Db 1 caggagagggcaaccaactgccccaggggga 31
```

```
RESULT 3
US-09-755-374A-3340/c
; Sequence 3340, Application US/09755374A
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin
; APPLICANT: Shinkets, Richard A.
; TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and M
; TITLE OF INVENTION: Use Thereof
; FILE REFERENCE: 15966-611
; CURRENT APPLICATION NUMBER: US/09/755,374A
; CURRENT FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/174962
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 28742
; SEQ ID NO 3340
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (26)...(0)
; OTHER INFORMATION: 2 of 2 allelic variants (3339 is other entry)
; NAME/KEY: misc_feature
; LOCATION: (25)...(26)
; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number c944930423
US-09-755-374A-3340
```

```
Query Match 1.38; Score 24.4; DB 29; Length 50;
Best Local Similarity 68.0%; Pred. No. 9.1e+05;
Matches 34; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
Oy 399 gcccaaacagcagcgcatggcgagccgagccggctgagcagcga 448
Db 50 GCCTAAAGACAGACAGATGCGATCCCGAGCGCTGTGACGAGAGA 1
```

```
RESULT 4
US-09-755-374A-26208
; Sequence 26208, Application US/09755374A
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin
; APPLICANT: Shinkets, Richard A.
; TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and M
; TITLE OF INVENTION: Use Thereof
; FILE REFERENCE: 15966-611
; CURRENT APPLICATION NUMBER: US/09/755,374A
; CURRENT FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/174962
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 28742
; SEQ ID NO 26208
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
```



```

? NAME/KEY: misc:feature
? LOCATION: (26)...(0)
? OTHER INFORMATION: 2 of 2 allelic variants (26207 is other entry)
? NAME/KEY: misc:feature
? LOCATION: (25)...(26)
? OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
? NAME/KEY: misc:feature
? LOCATION: (0)...(0)
? OTHER INFORMATION: Accession number cg44009035
? OS-09-755-374A-26208

```

	Query Match	Similarity	Score	DB	Length
		1.3%	24.2	29	50
	Best Local	71.1%	Pred. 9.9e+05		
	Matches	32	Conservative	0	Mismatches 13; Indels 0; Gaps 0
Qy	968	gcatcgtcggagagagcagttccgcgcacgcctgcgcctcgggtctggg	1012		
Db	5	gcatcggaggagagagcgtctgcctccggcgcctacgcctccggagaggg	49		

```

RESULT      5
US-09-755-374A-2825
: Sequence 2825, Application US/09755374A
: GENERAL INFORMATION:
: APPLICANT: Leach, Martin
: APPLICANT: Shinkets, Richard A.
: TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and Meth
: TITLE OF INVENTION: Use Thereof
: FILE REFERENCE: 15966-611
: CURRENT APPLICATION NUMBER: US/09/755,374A
: CURRENT FILING DATE: 2001-01-08
: PRIOR APPLICATION NUMBER: 60/174962
: PRIOR FILING DATE: 2000-01-07
: NUMBER OF SEQ ID NOS: 28742
: SEQ ID NO 2825
: LENGTH: 50
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (26)...(0)
: OTHER INFORMATION: 1 of 2 allelic variants (2826 is other entry)
: NAME/KEY: misc_feature
: LOCATION: (25)...(26)
: OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
: NAME/KEY: misc_feature
: LOCATION: (0)...(0)
: OTHER INFORMATION: Accession number cg43969816
: US-09-755-374A-2825

```

Query Match	1.3%	Score 23.8	DB 29	Length 50
Best Local Similarity	72.1%	Pred No. 1.2e+05		
Matches 31	Conservative	0	Mismatches 12	Indels 0
Gy	1124	gacagcgaggtgactcatcatgcttcgagcgacccatccaac	1166	
Db	5	gccacgctgtgtggtctgcgcatctcaagcccccatccac	47	

```

RESULT      6
US-10-017-974-35747
; Sequence 35747, Application US/10017974
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Nucleic Acid-Based Treatment of Diseases or Conditions Related to
; TITLE OF INVENTION: N1le Virus Infection
; FILE REFERENCE: MBH00,1109-A (400/037)
; CURRENT APPLICATION NUMBER: US/10/017,974
; CURRENT FILING DATE: 2001-12-10

```

```

? NUMBER OF SEQ ID NOS: 37080
? SOFTWARE: PatentIn version 3.0
? SEQ ID NO 35747
? LENGTH: 48
? TYPE: RNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
? IS-10-017-974-35747

```

Query Match	1.2%	Score 23.6	DB 37	Length 48
Best Local Similarity	63.0%	Pred. No. 1.3e+06		
Matches	29	Conservative	3	Mismatches 14
				Indels 0
				Gaps 0
QY	137	gctctgggggttaaggagactccctcaacgagcagcagccctgaaacgc	182	
Db	1	ggcucgggggagaaacucccucacgaacgucgcggaaagcgc	46	

```

RESULT 7
US-09-422-978-175
: Sequence 175, Application US/09422978
: GENERAL INFORMATION:
  APPLICANT: Cohen, Daniel
  APPLICANT: Blumenfeld, Marta
  APPLICANT: Chumanov, Ilya
  TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
  FILE REFERENCE: GENSET.020CPI
  CURRENT APPLICATION NUMBER: US/09/422,978
  EARLIER FILING DATE: 1999-10-20
  EARLIER APPLICATION NUMBER: US 09/298,850
  EARLIER FILING DATE: 1999-04-21
  EARLIER APPLICATION NUMBER: US 60/109,732
  EARLIER FILING DATE: 1998-11-23
  EARLIER APPLICATION NUMBER: US 60/082,614
  EARLIER FILING DATE: 1998-04-21
  NUMBER OF SEQ ID NOS: 11796
  SEQ ID NO 175
  LENGTH: 47
  TYPE: DNA
  ORGANISM: Homo Sapiens
  FEATURE:
  NAME/KEY: allele
  LOCATION: 24
  OTHER INFORMATION: 99-13320-352 : polymorphic base A or G
  US-09-422-978-175

```

```
Query Match      1.2%   Score 23.2; DB 18; Length 47;  
Best Local Similarity 67.4%; Pred No. 1.5e+05;  
Matches 31; Conservative 1; Mismatches 14; Indels 0; Gaps 0  
  
QY 1484 agccagccctgagtggaggaaacagcgcaatgtgcctcgtcgt 1529  
             ||| | | | | | | | | | | | | | | |  
ob 1 agccaagccctgtaccctcgcgagtcgcgcgtcttgcctctcttt 46  
          ++++++
```

```

RESULT      8
US-09-718-159-5
: Sequence 5, Application US/09718159
: GENERAL INFORMATION:
: APPLICANT: Harkins, Richard
: APPLICANT: Lin, Richard
: APPLICANT: Luke, May
: APPLICANT: Montecclaro, Felipe
: APPLICANT: Parkes, Deborah
: APPLICANT: Parry, Gordon
: APPLICANT: Steindbrecher, Renate
: APPLICANT: Van Heult, Pamela Toy
: TITLE OF INVENTION: DNA Encoding a Novel ETS Polypeptide
: FILE REFERENCE: 51790A05M1

```

```
; CURRENT APPLICATION NUMBER: US/09/718,159
; CURRENT FILING DATE: 2000-11-21
; PRIOR APPLICATION NUMBER: 60/168,182
; PRIOR FILING DATE: 1999-11-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: probe
US-09-718-159-5
```

```
Query Match 1.2%; Score 23; DB 28; Length 23;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1783 cctgcctccatctcgcaccaca 1805
|||||
Db 1 cctgcctccatctcgcaccaca 23
```

```
RESULT 9
US-09-718-159-9
; Sequence 9, Application US/09718159
; GENERAL INFORMATION:
; APPLICANT: Harkins, Richard
; APPLICANT: Lin, Richard
; APPLICANT: Luke, May
; APPLICANT: Montecarlo, Felipe
; APPLICANT: Parkes, Deborah
; APPLICANT: Parry, Gordon
; APPLICANT: Steinbrecher, Renate
; APPLICANT: Van Heult, Pamela Toy
; APPLICANT: Xuan, Jian-ai
; TITLE OF INVENTION: DNA Encoding a Novel ETS Polypeptide
; FILE REFERENCE: 51790AUSM1
; CURRENT APPLICATION NUMBER: US/09/718,159
; CURRENT FILING DATE: 2000-11-21
; PRIOR APPLICATION NUMBER: 60/168,182
; PRIOR FILING DATE: 1999-11-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 9
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: antisense
US-09-718-159-9
```

```
Query Match 1.2%; Score 23; DB 28; Length 23;
Best Local Similarity 73.9%; Pred. No. 1.6e+06;
Matches 17; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1161 tccacctgtgcagttcctcaag 1183
|||||
Db 1 uccaccugugcagcuuccucaag 23
```

```
RESULT 10
US-09-718-159-10
; Sequence 10, Application US/09718159
; GENERAL INFORMATION:
; APPLICANT: Harkins, Richard
; APPLICANT: Lin, Richard
; APPLICANT: Luke, May
; APPLICANT: Montecarlo, Felipe
; APPLICANT: Parkes, Deborah
; APPLICANT: Parry, Gordon
```

```
; APPLICANT: Steinbrecher, Renate
; APPLICANT: Van Heult, Pamela Toy
; APPLICANT: Xuan, Jian-ai
; TITLE OF INVENTION: DNA Encoding a Novel ETS Polypeptide
; FILE REFERENCE: 51790AUSM1
; CURRENT APPLICATION NUMBER: US/09/718,159
; CURRENT FILING DATE: 2000-11-21
; PRIOR APPLICATION NUMBER: 60/168,182
; PRIOR FILING DATE: 1999-11-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 10
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: antisense
US-09-718-159-10
```

```
Query Match 1.2%; Score 23; DB 28; Length 23;
Best Local Similarity 91.3%; Pred. No. 1.6e+06;
Matches 21; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1734 tgactcgacaagccacagca 1756
|||||
Db 1 ugacucgacaagccacagca 23
```

```
RESULT 11
US-09-718-159-11
; Sequence 11, Application US/09718159
; GENERAL INFORMATION:
; APPLICANT: Harkins, Richard
; APPLICANT: Lin, Richard
; APPLICANT: Luke, May
; APPLICANT: Montecarlo, Felipe
; APPLICANT: Parkes, Deborah
; APPLICANT: Parry, Gordon
; APPLICANT: Steinbrecher, Renate
; APPLICANT: Van Heult, Pamela Toy
; APPLICANT: Xuan, Jian-ai
; TITLE OF INVENTION: DNA Encoding a Novel ETS Polypeptide
; FILE REFERENCE: 51790AUSM1
; CURRENT APPLICATION NUMBER: US/09/718,159
; CURRENT FILING DATE: 2000-11-21
; PRIOR APPLICATION NUMBER: 60/168,182
; PRIOR FILING DATE: 1999-11-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 11
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: antisense
US-09-718-159-11
```

```
Query Match 1.2%; Score 23; DB 28; Length 23;
Best Local Similarity 82.6%; Pred. No. 1.6e+06;
Matches 19; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1699 ccagatccagagcagcct 1721
|||||
Db 1 ccagcauuuccagagcagccu 23
```

```
RESULT 12
US-09-755-374A-9716
; Sequence 9716, Application US/09755374A
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin
```

```

; APPLICANT: Shinkets, Richard A.
; TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and Meth
; FILE REFERENCE: 15966-611
; CURRENT APPLICATION NUMBER: US/09/755,374A
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/174962
; NUMBER OF SEQ ID NOS: 28742
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (26)...(0)
; OTHER INFORMATION: 2 of 2 allelic variants (9715 is other entry)
; NAME/KEY: misc_feature
; LOCATION: (25)...(26)
; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number cg43952512
US-09-755-374A-9716

Query Match
Best Local Similarity 74.4%; Score 23; DB 29; Length 50;
Matches 29; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 629 agctggagcagcagagccctgggagcagcagtcggag 667
      ||||| | | | | | | | | | | | | | | | | | |
DB 1 agctgcactggcagcagcaccatgggagcagcagtcgag 39

RESULT 13
US-60-253-652-21580
; Sequence 21580, Application US/60253652
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; TITLE OF INVENTION: Compositions isolated from bovine
; FILE REFERENCE: 1055P2
; CURRENT APPLICATION NUMBER: US/60/253,652
; CURRENT FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 29954
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21580
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Bovine
US-60-253-652-21580

Query Match
Best Local Similarity 74.4%; Score 23; DB 64; Length 50;
Matches 29; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 383 acagacagcgcgcagcccaacagcagcagtcggagc 421
      || | | | | | | | | | | | | | | | | | | |
DB 12 actgagacagcgcctacaccatcgcgcgcagtcgagc 50

RESULT 14
US-09-755-374A-28060
; Sequence 28060, Application US/09755374A
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin
; APPLICANT: Shinkets, Richard A.
; TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and Meth
; FILE REFERENCE: 15966-611
```

```

; CURRENT APPLICATION NUMBER: US/09/755,374A
; CURRENT FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/174962
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 28742
; SEQ ID NO 28060
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (26)...(0)
; OTHER INFORMATION: 2 of 2 allelic variants (28059 is other entry)
; NAME/KEY: misc_feature
; LOCATION: (25)...(26)
; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number cg44009326
US-09-755-374A-28060

Query Match
Best Local Similarity 66.0%; Score 22.6; DB 29; Length 50;
Matches 33; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 485 tcgcgacagcgttgagagagcgcgcagcgggagtcgagcag 534
      ||||| | | | | | | | | | | | | | | | | |
DB 1 tcgcgcagcagcgtggcgccgagcggcggggtgtgtgttcagcag 50

RESULT 15
US-08-472-801-161/C
; Sequence 161, Application US/08472801
; GENERAL INFORMATION:
; APPLICANT: Hessed 2
; APPLICANT: Smith, Larry J.
; TITLE OF INVENTION: Method and Compositions for Cellular
; FILE REFERENCE: Hessed 2
; CURRENT APPLICATION NUMBER: US/08/472,801
; CURRENT FILING DATE: 1995-06-07
; NUMBER OF SEQ ID NOS: 3601
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 161
; LENGTH: 38
; TYPE: DNA
; ORGANISM: Homo sapiens
US-08-472-801-161

Query Match
Best Local Similarity 75.7%; Score 22.6; DB 8; Length 38;
Matches 28; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 958 ggagcgtcgcgcagtcgagagcagtcgagcagcagc 994
      ||||| | | | | | | | | | | | | | | | |
DB 37 ggagtgccgcgcagcagcagcagcagcagcagcagc 1

Search completed: August 6, 2002, 23:36:06
Job time: 9294 sec
```



GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2002, 21:35:07 ; Search time 378.9 Seconds  
(without alignments)  
10877.386 Million cell updates/sec

Title: US-09-841-963a-1  
Perfect score: 1894  
Sequence: 1 gctgacttcctccacgac.....ataaagatactagagaactg 1894

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1362792 seqs, 1088025756 residues

Total number of hits satisfying chosen parameters: 646124

Minimum DB seq length: 10  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Pending Patents\_NA\_New:\*  
1: /cgn2\_6/pdata1/pna/PCT\_NEW\_COMB.seq:\*  
2: /cgn2\_6/pdata1/pna/US06\_NEW\_COMB.seq:\*  
3: /cgn2\_6/pdata1/pna/US07\_NEW\_COMB.seq:\*  
4: /cgn2\_6/pdata1/pna/US08\_NEW\_COMB.seq:\*  
5: /cgn2\_6/pdata1/pna/US09\_NEW\_COMB.seq:\*  
6: /cgn2\_6/pdata1/pna/US10\_NEW\_COMB.seq:\*  
7: /cgn2\_6/pdata1/pna/US10\_NEW\_COMB.seq?:\*  
8: /cgn2\_6/pdata1/pna/US60\_NEW\_COMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	21.8	1.2	41	US-60-384-980-216	Sequence 216, App
2	21.6	1.1	48	US-09-745-237A-3875	Sequence 3875, Ap
3	21.2	1.1	50	US-09-980-217-51	Sequence 51, Appl
4	21.1	1.1	41	PCT-US02-12063-268	Sequence 268, App
5	21.1	1.1	41	US-10-126-022-268	Sequence 268, App
6	20.8	1.1	48	US-10-156-306-7580	Sequence 7580, Ap
7	20.8	1.1	50	US-09-718-321A-1048	Sequence 1048, Ap
8	20.6	1.1	49	US-09-978-917A-25	Sequence 25, Appl
9	20.6	1.1	49	US-09-997-623-25	Sequence 25, Appl
10	20.4	1.1	48	US-09-745-237A-3833	Sequence 3833, Ap
11	20.2	1.1	41	US-60-384-980-69	Sequence 69, Appl
12	20.2	1.1	50	US-10-099-926-1257	Sequence 1257, Ap
13	20.2	1.1	48	US-09-745-237A-3872	Sequence 3872, Ap
14	20.1	1.1	48	US-09-745-237A-3877	Sequence 3877, Ap
15	19.8	1.0	44	US-09-913-238-45	Sequence 45, Appl
16	19.8	1.0	47	US-10-170-097-1121	Sequence 1121, Ap
17	19.8	1.0	48	US-09-745-237A-4024	Sequence 4024, Ap
18	19.8	1.0	48	US-09-745-237A-4051	Sequence 4051, Ap
19	19.8	1.0	48	US-10-156-306-3945	Sequence 3945, Ap
20	19.8	1.0	48	US-10-156-306-4297	Sequence 4297, Ap
21	19.8	1.0	48	US-10-156-306-7660	Sequence 7660, Ap
22	19.6	1.0	50	US-09-718-321A-1047	Sequence 1047, Ap
23	19.6	1.0	43	US-10-139-480-18	Sequence 18, Appl
24	19.6	1.0	48	US-09-745-237A-3850	Sequence 3850, Ap
25	19.6	1.0	50	US-09-718-321A-228	Sequence 228, App

26	19.4	1.0	40	US-10-068-965-5	Sequence 5, Appl1
27	19.4	1.0	41	PCT-US02-12063-402	Sequence 402, App
28	19.4	1.0	41	US-10-126-022-402	Sequence 402, App
29	19.4	1.0	48	US-09-745-237A-4248	Sequence 4248, Ap
30	19.4	1.0	48	US-10-156-306-7370	Sequence 7370, Ap
31	19.2	1.0	48	US-10-109-349A-102	Sequence 102, App
32	19.2	1.0	48	US-09-745-237A-4318	Sequence 4318, Ap
33	19.2	1.0	50	PCT-US02-12405-476	Sequence 476, App
34	19.2	1.0	50	US-10-144-094-33	Sequence 33, Appl
35	19.2	1.0	50	US-10-045-674-476	Sequence 476, App
36	19.1	1.0	43	US-09-747-774A-80	Sequence 80, Appl
37	19.1	1.0	45	US-09-380-447A-246	Sequence 246, App
38	19.1	1.0	47	US-10-170-097-971	Sequence 971, App
39	19.1	1.0	48	US-09-745-237A-3916	Sequence 3916, Ap
40	19.1	1.0	48	US-09-745-237A-4015	Sequence 4015, Ap
41	19.1	1.0	48	US-10-156-306-4143	Sequence 4143, Ap
42	19.1	1.0	48	US-10-156-306-7410	Sequence 7410, Ap
43	19.1	1.0	48	US-10-156-306-7653	Sequence 7653, Ap
44	19.1	1.0	50	US-09-718-321A-1013	Sequence 1013, Ap
45	18.8	1.0	41	US-60-384-980-28	Sequence 28, Appl

## ALIGNMENTS

RESULT 1  
US-60-384-980-216/c  
Sequence 216, Application US/60384980  
GENERAL INFORMATION:  
APPLICANT: Bristol-Myers Squibb Company  
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS  
FILE REFERENCE: D0211 PSP  
CURRENT APPLICATION NUMBER: US/60/384,980  
CURRENT FILING DATE: 2002-06-03  
NUMBER OF SEQ ID NOS: 1219  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 216  
LENGTH: 41  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-60-384-980-216

Query Match 1.2%: Score 21.8; DB 8; Length 41;  
Best Local Similarity 70.7%: Pred. No. 3.1e+05;  
Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Oy 1233 acaagagagagcattcaaatggagcaccag 1273  
Db 41 AAAGGGGAGAGATGTTAAATCTGAGCTCAGGCGCAG 1

RESULT 2  
US-09-745-237A-3875  
Sequence 3875, Application US/09745237A  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Blatt, Larry  
TITLE OF INVENTION: Mctwigen, Jim  
FILE REFERENCE: 400/007 (MBH00-918-A)  
CURRENT APPLICATION NUMBER: US/09/745,237A  
CURRENT FILING DATE: 2002-04-15  
NUMBER OF SEQ ID NOS: 4550  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 3875  
LENGTH: 48  
TYPE: RNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid  
US-09-745-237A-3875

Query Match	1.1%;	Score 21;	DB 1;	Length 41.
Best Local Similarity	82.8%;	Pred. No. 4.4e+05;		

	Query Match	1.1%	Score 20.8	DB 7	Length 48
	Best Local Similarity	60.4%	Pred. No. 4	8e+05	
	Matches 29	Conservative 2	Mismatches 17	Indels 0	Gaps 0
QY	137	gacgtgggtagggagactccctacagcagcagcccttgaagacgcga	184		
Db	1	ggcaggggggagaaacuccucacaggaagcaucagucgggggggggcca	48		

## RESULT 7

```
US-09-718-321A-1048/c
; Sequence 1048, Application US/09718321A
; GENERAL INFORMATION:
; APPLICANT: Shimkets, Richard A.
; TITLE OF INVENTION: NUCLEIC ACIDS CONTAINING SINGLE NUCLEOTIC ACID POLYMORPHISMS AND ME
; FILE REFERENCE: 15966-599
; CURRENT APPLICATION NUMBER: US/09/718,321A
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: 60/163,783
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1468
; SOFTWARE: Curagen Patent Formatter Version 0.9
; SEQ ID NO 1048
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: (26)...(0)
; OTHER INFORMATION: single nucleotide polymorphism
; NAME/KEY: misc_feature
; LOCATION: (25)...(26)
; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number cg43955639
US-09-718-321A-1048
```

## Query Match

Best Local Similarity 1.1%; Score 20.8; DB 5; Length 50;  
Matches 31; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

## OY 1640

```
agctgtccctgagagagagagagagagctgtcccaacacc 1687
|||||
Db 49 AGCCGCTACCTTGAGAGAGACACAGAGAGTCCCACTAC 2
```

## RESULT 8

```
US-09-978-917A-25/c
; Sequence 25, Application US/09978917A
; GENERAL INFORMATION:
; APPLICANT: Maxygen Aps; Maxygen Holdings
; TITLE OF INVENTION: Protein C or activated protein C-like molecules
; FILE REFERENCE: 0219us310 - protein C
; CURRENT APPLICATION NUMBER: US/09/978,917A
; CURRENT FILING DATE: 2001-10-17
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 49
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-978-917A-25
```

## Query Match

Best Local Similarity 1.1%; Score 20.6; DB 5; Length 49;  
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

## OY 713

```
gcccagcgagccttgactgtgcccggcgagctgacct 755
|||||
Db 46 GCCCGCAGCGCAGCTTGCTGTGTCTCCAGCAGACCACT 4
```

## RESULT 9

## US-09-997-623-25/c

```
; Sequence 25, Application US/09997623
; GENERAL INFORMATION:
; APPLICANT: Maxygen Aps; Maxygen Holdings
; TITLE OF INVENTION: Protein C or activated protein C-like molecules
; FILE REFERENCE: 0219us410 - protein C
; CURRENT APPLICATION NUMBER: US/09/997,623
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US/09/978,917
; PRIOR FILING DATE: 2001-10-17
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 49
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-997-623-25
```

## Query Match

Best Local Similarity 1.1%; Score 20.6; DB 5; Length 49;  
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

## OY 713

```
gcccagcgagccttgactgtgcccggcgagctgacct 755
|||||
Db 46 GCCCGCAGCGCAGCTTGCTGTGTCTCCAGCAGACCACT 4
```

## RESULT 10

```
US-09-745-237A-3833
; Sequence 3833, Application US/09745237A
; GENERAL INFORMATION:
; APPLICANT: Rhozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
; FILE REFERENCE: 400/007 (MBH00-918-A)
; CURRENT APPLICATION NUMBER: US/09/745,237A
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 4550
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3833
; LENGTH: 48
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
US-09-745-237A-3833
```

## Query Match

Best Local Similarity 1.1%; Score 20.4; DB 5; Length 48;  
Matches 28; Conservative 2; Mismatches 16; Indels 0; Gaps 0;

## OY 137

```
ggtgggggtagggagcctccctcagcgagcagccctgagaccgc 182
|||||
Db 1 ggcaggggggaggaacuccucaaagacacagucgaggaagggc 46
```

## RESULT 11

```
US-60-384-980-69/c
; Sequence 69, Application US/60384980
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0211 PSP
; CURRENT APPLICATION NUMBER: US/60/384,980
; CURRENT FILING DATE: 2002-06-03
; NUMBER OF SEQ ID NOS: 1219
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 69
```

Wed Aug 7 09:11:29 2002

us-09-841-963a-1.sz1m.rnpn

LENGTH: 41  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-60-384-980-69

Query Match 1.1%; Score 20.2; DB 8; Length 41;  
Best Local Similarity 68.3%; Pred. No. 6.2e+05;  
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 1233 acaagaggaagggcattcctcaaatgagctcagccag 1273  
Db 41 AAAGGGCAGAGAAATCTTACATCTGAGCTCTCAGGCAG 1

RESULT 12  
US-10-099-926-1257/c  
Sequence 1257, Application US/10099926  
GENERAL INFORMATION:  
APPLICANT: King, Gordon E.  
APPLICANT: Meagher, Madeline Joy  
APPLICANT: Xu, Jiangchun  
APPLICANT: Secrist, Heather  
APPLICANT: Jiang, Yugu  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
FILE REFERENCE: 210121.547C2  
CURRENT APPLICATION NUMBER: US/10/099,926  
CURRENT FILING DATE: 2002-03-17  
NUMBER OF SEQ ID NOS: 1982  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1257  
LENGTH: 50  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-099-926-1257

Query Match 1.1%; Score 20.2; DB 7; Length 50;  
Best Local Similarity 63.3%; Pred. No. 6.2e+05;  
Matches 31; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 473 ccgacacagctgctcgagagcttgagagcgagcgagcgag 521  
Db 49 CACGACACAGCAGCTGAGCGGATGGGGCGGCTTGAGAGGCCAG 1

RESULT 13  
US-09-745-237A-3872  
Sequence 3872, Application US/09745237A  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Blatt, Larry  
APPLICANT: McSwiggen, Jim  
TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease  
FILE REFERENCE: 400/007 (MHB00-918-A)  
CURRENT APPLICATION NUMBER: US/09/745,237A  
CURRENT FILING DATE: 2002-04-15  
NUMBER OF SEQ ID NOS: 4550  
SOFTWARE: PatentIn Version 3.0  
SEQ ID NO 3872  
LENGTH: 48  
TYPE: RNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid  
US-09-745-237A-3872

Query Match 1.1%; Score 20; DB 5; Length 48;  
Best Local Similarity 61.4%; Pred. No. 6.8e+05;  
Matches 27; Conservative 2; Mismatches 15; Indels 0; Gaps 0;

Qy 138 gctgggggtaggggactcctacagcgagccctgagaccg 181  
Db 2 gcagggggaggaagaaacuccucaaaggacauguccggagaccg 45

RESULT 14  
US-09-745-237A-3877  
Sequence 3877, Application US/09745237A  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Blatt, Larry  
APPLICANT: McSwiggen, Jim  
TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease  
FILE REFERENCE: 400/007 (MHB00-918-A)  
CURRENT APPLICATION NUMBER: US/09/745,237A  
CURRENT FILING DATE: 2002-04-15  
NUMBER OF SEQ ID NOS: 4550  
SOFTWARE: PatentIn Version 3.0  
SEQ ID NO 3877  
LENGTH: 48  
TYPE: RNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid  
US-09-745-237A-3877

Query Match 1.1%; Score 20; DB 5; Length 48;  
Best Local Similarity 61.4%; Pred. No. 6.8e+05;  
Matches 27; Conservative 2; Mismatches 15; Indels 0; Gaps 0;

Qy 139 ctgggggtaggggactcctacagcgagccctgagaccg 182  
Db 3 ccgggggaggaagaaacuccucaaaggacauguccggagaccg 46

RESULT 15  
US-09-913-238-45/c  
Sequence 45, Application US/09913238  
GENERAL INFORMATION:  
APPLICANT: Barbas, Carlos F.  
APPLICANT: Steinberger, Peter  
TITLE OF INVENTION: METHODS AND COMPOSITIONS USEFUL FOR  
FILE REFERENCE: TSRI 728.1  
CURRENT APPLICATION NUMBER: US/09/913,238  
CURRENT FILING DATE: 2002-03-05  
PRIOR APPLICATION NUMBER: PCT/EPO 0/12419  
PRIOR FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: US 60/169,653  
PRIOR FILING DATE: 1999-12-08  
NUMBER OF SEQ ID NOS: 85  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 45  
LENGTH: 44  
TYPE: DNA  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: Synthesized  
US-09-913-238-45

Query Match 1.0%; Score 19.8; DB 5; Length 44;  
Best Local Similarity 69.2%; Pred. No. 7.4e+05;  
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 338 cagctccctgggacagcgagcagtaacagacagcgagc 396  
Db 39 CGGCGCCTGGGCCCTCGCAGCTAGCAAGCTCCTCCGC 1

Search completed: August 6, 2002, 23:42:38



Wed Aug 7 09:11:29 2002

us-09-841-963a-1.szlim.rnpn

Page 5

Job time: 7651 sec

---

